

# BMS Startup Mobile App

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# 1. COMPATIBILITY

## 1.1 Mobile Devices

The App is optimized for mobile phones – Android & iOS but also compatible with tablets/ipads. On larger screens, minor UI misalignments may occur.

- Android OS Versions: 13 & above
- iOS OS versions: 16 & above

## 1.2 Engineering Tools

**Table 1 Tools Details**

Brand	Tool Version
Honeywell	Optimizer Supervisor workbench 4.10.8.2.0.12 or above
Alerton	Compass 2.2.1.9 or above
HBS-CPO	CPO Studio Tool R340 v50.0.0.10 or above
Trend	Coming soon

## 1.3 BLE Hardware SKU's

**Table 2 SKU Details**

Controller	FW Version
Alerton Unitary	<ul style="list-style-type: none"> <li>VLC-16U8-IP-BLE</li> <li>VLC-8U8-IP-BLE</li> <li>VLC-16U8-T1L-BLE</li> <li>VLC-8U8-T1L-BLE</li> </ul>
Alerton VAVs	<ul style="list-style-type: none"> <li>VAVi-7u5-T1L-BLE (Coming soon)</li> <li>VAVi-7u5-IP-BLE (Coming soon)</li> </ul>
Optimizer/CPO Unitary	<ul style="list-style-type: none"> <li>UN-RL1644MSB24NM</li> <li>UN-RL1644ESB24NM</li> <li>UN-RL1644TSB24NM</li> <li>UN-RS0844MSB24NM</li> <li>UN-RS0844ESB24NM</li> <li>UN-RS0844TSB24NM</li> <li>UN-RL1644MSB230NM</li> <li>UN-RL1644ESB230NM</li> <li>UN-RL1644TSB230NM</li> <li>UN-RS0844MSB230NM</li> <li>UN-RS0844ESB230NM</li> <li>UN-RS0844TSB230NM</li> </ul>
Optimizer/CPO VAVs	<ul style="list-style-type: none"> <li>VAA-VA75TB24NM (Coming soon)</li> </ul>
Optimizer Adv Controller	<ul style="list-style-type: none"> <li>N-ADV-133-H-B</li> <li>N-ADV-133-H-BWE</li> <li>N-ADV-133-H-BWA</li> <li>N-ADV-133-H-BWW</li> </ul>

**Table 2 SKU Details (Continued)**

IO Modules	<ul style="list-style-type: none"> <li>• IO-16UIO-S-S</li> <li>• IOD-16UIO-S-S</li> <li>• IO-16UI-S-S</li> <li>• IO-16DI-S-S</li> <li>• IO-8DOR-S-S</li> <li>• IOD-8DOR-S-S</li> <li>• IO-16UIO-S-P</li> <li>• IOD-16UIO-S-P</li> <li>• IO-16UI-S-P</li> <li>• IO-16DI-S-P</li> <li>• IO-8DOR-S-P</li> <li>• IOD-8DOR-S-P</li> <li>• IO-8UIO-S-S</li> <li>• IOD-8UIO-S-S</li> <li>• IO-8AO-S-S</li> <li>• IOD-8AO-S-S</li> <li>• IO-4UIO-S-S</li> <li>• IOD-4UIO-S-S</li> <li>• IO-8DI-S-S</li> <li>• IO-4DOR-S-S</li> <li>• IOD-4DOR-S-S</li> <li>• IO-4DORE-S-S</li> <li>• IOD-4DORE-S-S</li> <li>• IO-8UIO-S-P</li> <li>• IOD-8UIO-S-P</li> <li>• IO-8AO-S-P</li> <li>• IOD-8AO-S-P</li> <li>• IO-4UIO-S-P</li> <li>• IOD-4UIO-S-P</li> </ul>
IO Modules	<ul style="list-style-type: none"> <li>• IO-8DI-S-P</li> <li>• IO-4DOR-S-P</li> <li>• IOD-4DOR-S-P</li> <li>• IO-4DORE-S-P</li> <li>• IOD-4DORE-S-P</li> </ul>

## 2. BLE CONNECTIVITY

### 2.1 Enabling BLE on the Controller

BLE is activated by default on controllers with the latest firmware versions.

If you still need to enable it, access the BLE configuration section in your engineering tool to enable Bluetooth.

The controller's BLE LED will blink green when BLE is active, confirming that it's ready for scanning.

### 2.2 Controller is not appearing in the BLE scan

- Make sure your controller is powered on and that BLE is enabled, indicated by a blinking green LED.
- Enable BLE on your mobile device when prompted by the app. For iOS devices, ensure that Bluetooth is enabled in both "Settings" and "Control Center." Also, confirm that "Allow New Connections" is selected.
- Keep your mobile device within a range of 20 to 30 meters for a stable connection. Maintaining a clear line of sight will enhance performance.
- For controllers equipped with external BLE antennas, ensure they are positioned perpendicularly to maximize signal coverage.
- If you are using an Android device and don't see the latest device details or if the device is not appearing in the Bluetooth (BLE) scan list, follow these steps:
  - a. Go to your phone's settings and ensure that Bluetooth is enabled.
  - b. Perform a scan for devices outside of the app to check if the device appears in the list.
  - c. After confirming the device is visible, return to the app and rescan for devices.

### 2.3 Identifying Your Controller in the Scan List

Each controller transmits a **Device Name** (For Optimizer and CPO) and **Device Description** (for Alerton) controllers. If no name is provided, the controller defaults to broadcasting its serial number for identification.

### 2.4 Connection Issues and Stability

If your device disconnects unexpectedly, check that the controller and mobile device are within range. Restart Bluetooth on your phone or re-enable BLE on the controller, and restart if the issue persists.

### 2.5 BLE Validity

Validity is determined using the specific tool, and the maximum duration allowed is 90 days.

## **3. SECURITY AND ACCESS CONTROL**

### **3.1 Setting the BLE Security PIN**

- We recommend configuring the BLE Security PIN using your Tool. You can enable BLE and set a Security PIN with an expiry date. The PIN must be 8 digits long.
- Before changing the PIN, ensure that the controller's date and time are set correctly. Accurate date and time settings on the controller are essential for maintaining security and access. Use the Engineering Tool to update these settings to prevent any potential connection or PIN issues.
- You can set a BLE security PIN when connecting to a controller for the first time using the Mobile App, provided that no PIN is configured. Once set, any changes or resets of the PIN must be done using the engineering tool.

### **3.2 Resetting BLE Security PIN**

The Security PIN can only be reset using the Tool.

### **3.3 Applying the Same PIN Across Multiple Controllers**

To configure the same PIN for multiple controllers simultaneously, use the Engineering Tool. Alternatively, if you have multiple controllers at the same site, select "use as default" in the App to apply the same PIN across all controllers.

### **3.4 Simultaneous Device Access**

Only one mobile device can be connected to one controller at a time. When connected, the controller's BLE LED will turn solid green, indicating an active session.

### **3.5 Performing Checkout on Controllers**

Factory-default controllers must be configured with an application using the Engineering Tool before initiating checkout with the App.

### **3.6 Supported Overrides**

Currently, only Output Overrides are available. Input Override functionality will be included in future updates to the app.

### **3.7 Override Priority**

The application writes overrides at Priority 8 within the priority array (1-16) for points that support prioritization. This ensures that overrides take effect without conflicting with higher-priority settings.

### **3.8 Data Persistence During Connection Loss**

All checkout data is stored locally on your mobile device, ensuring that no information is lost in the event of a disconnection from the controller. However, please note that live point values cannot be viewed, nor can overrides be made, until the connection is restored.

## 4. REPORT GENERATION

### 4.1 Saving and Accessing Reports

Reports generated in the app are saved under the **Report Management** menu for easy access. Each report includes detailed checkout data at the controller and site levels, providing you with a complete view of the system status.

### 4.2 Offline Report Generation

You can generate Reports offline since data is stored locally in the app's database. Internet connectivity is only necessary for sharing the Reports.

### 4.3 Report Format

Reports are generated in .csv format, ensuring compatibility with most spreadsheet applications for easy viewing, sharing, and storage.

## 5. TROUBLESHOOTING COMMON ISSUES

### 5.1 Controller BLE LED Flashing Red

This usually indicates a connection error or BLE misconfiguration. Ensure the controller is powered and BLE is enabled in the engineering tool. If necessary, reset the BLE settings and restart the controller.

### 5.2 Location Permissions Request

Certain mobile operating systems necessitate location permissions in order to facilitate BLE scanning. Granting access to location services activates the Bluetooth capabilities within the application. It is important to note that the application does not utilize or retain any of your location data.

### 5.3 "PIN Incorrect" Message

Please double-check the PIN you entered, as entering an incorrect PIN is a common issue. If this problem continues, verify or reset the PIN using the engineering tool to ensure consistent access. Additionally, if you enter the wrong PIN three times in a row, the controller will be locked for 30 minutes.

### 5.4 Minimizing the App

Minimizing the application while the controller is connected via Bluetooth may cause the connection to be lost between the controller and the app. The user will need to rediscover the controller from the app and reconnect via Bluetooth.

### 5.5 The Terminals are Not Appearing in the App

When adding terminals with an undefined address, those terminals will not appear in the mobile app. Users must ensure that both the address of the module and the addresses of each channel are properly defined to be visible in the mobile app.

## 6. CURRENT APP LIMITATIONS

### 6.1 Configuration Updates

The configuration of controllers in the app does not update automatically; it requires a reconnection for any changes to take effect. Only operational data, such as the present value and point status, will be refreshed periodically. To apply configuration changes including updates to point/IO configuration, adding or deleting items, and changes to names, characteristics, and units, you will need to reconnect to the controller.

### 6.2 Name of the Site in the App

The site name configured in sentence case, title case, or all lowercase will display in all caps when accessing the site overview page.

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