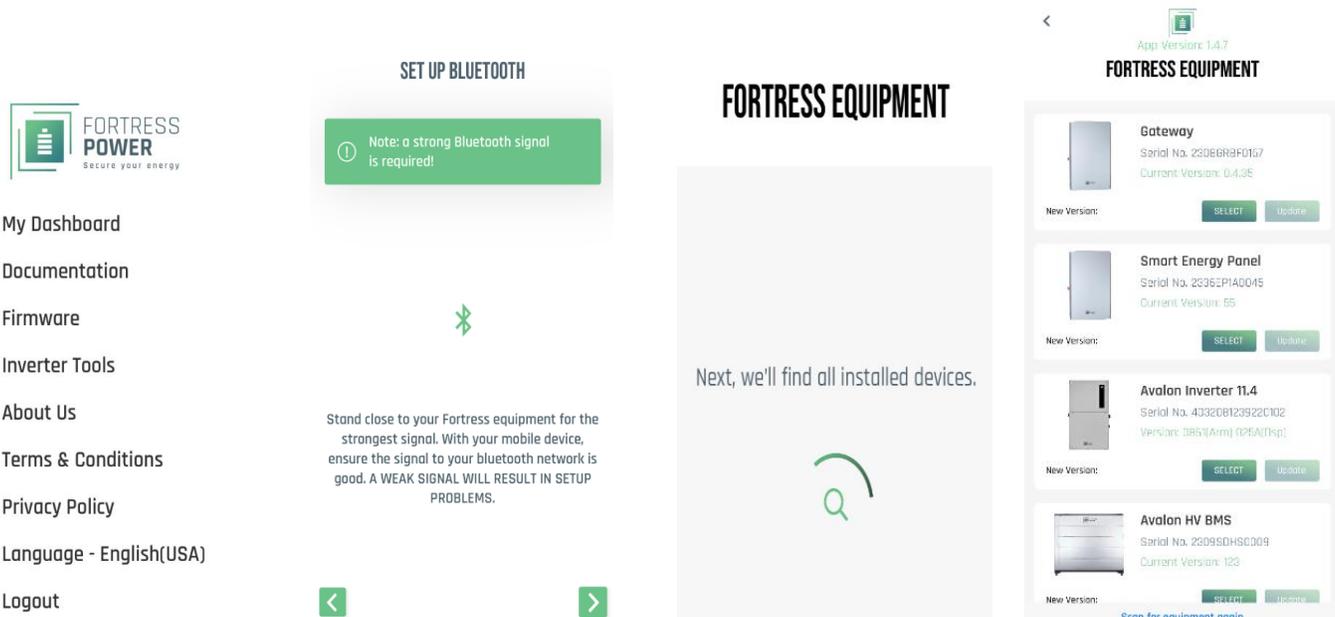HV Avalon ESS Updating Guide:

1: Using the Installer App

1. Access the Firmware Update Feature
   - Open the Installer App
   - Navigate to the side menu and select "Firmware"
2. Connect to Bluetooth
   - Search for the Gateway.
   - Connect to the Fortress equipment (the gateway serial number can be found inside the SEP door.)
3. Select the Product to Update
   - Choose the product that needs to be updated from the list.
4. Download AND Update Firmware
   - Download the latest firmware version to your device.
   - Select the option to update the firmware.
   - Wait for the update process to complete. Verify the update by checking the product status.

   ** Note on Power Interruptions
   During the update, SEP, BMS, and PCS will restart.
   The home will lose power until the restart is completed.

Important Notes:

- When using the installer App, it utilizes BLE. <mark>Keep your device close to the product until the update is finished.</mark>
- Do not update multiple PCS in parallel. It is recommended to update each PCS separately.

Recommended Update Sequence:

1. Gateway
2. SEP
3. HMI

2. Using the Fortress Power Homeowner App

1. Initiate the OTA Update
   - Open the Fortress Power Homeowner App.
   - This method uses Over-The-Air (OTA) updated, allowing remote updates. However, it is recommended to be next to the product during the update process.
2. Select the Product to Update
   - Choose the product that needs to be updated.
   - Select the newly released firmware version.
3. Verify and Complete the Update
   - Wait for the update to finish and verify by checking the product status.

** Note on Power Interruptions

- During the update, SEP, BMS and PCS will turn off and restart.
- During the PCS update, the BMS light may turn red. This is normal; do not turn off the power.
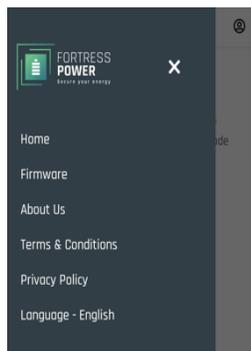
3: Using the Web Console

1. Prepare for the Update

   - Download the firmware version onto your laptop.
   - Add the Gateway to the Wi-Fi network or connect it directly to Ethernet.
   - Ensure both the laptop and the Gateway are on the same network.

2. Find the IP Address

   - Use the Installer App's Network connection feature.
   - Press the Wi-Fi icon on the HMI
   - Check the laptop network settings to find the device 's IP address.

3. Access the Update

   - Select the OTA (Over-The-Air) update option.
   - Choose the product that needs to be updated.
   - Press the update button and wait for the process to complete.

Fortress-Guardian

Web Console

| DEBUG |
| OTA |
| PCS Parallel Connection |
| Point Table |

Local OTA Tool

Guardian

SN: 2308GRBF0167 **Version:** 0.4.35

choose OTA file: [Choose File] No file chosen [Upgrade]

Note: Please FORCE reload (CTRL + F5) the browser after upgrading success!

Smart Energy Panel

SN: 2336EP1A0045 **Version:** 55

choose OTA file: [Choose File] No file chosen [Upgrade]

Avalon HV BMS

Avalon HV BMS

SN: 2309SDHS0009 **Version:** 123

Avalon HV BMS

SN: 2309SDHS0051 **Version:** 123

choose OTA file: [Choose File] No file chosen [Upgrade]

Inverter   ○ ARM ○ DSP

☐ **Avalon Inverter 11.4**

SN: 4032081239220083 **ARM Version:** 0861 **DSP Version:** 026E
SN: 4032081239220102 **ARM Version:** 0861 **DSP Version:** 026E

choose OTA file: [Choose File] No file chosen [Upgrade]

Updating HMI (LCD) Using an SD Card

1. Prepare the SD Card

   - Download the bin file to your laptop
   - Rename the file to ota.bin
   - Transfer the file to an SD card.

2. Prepare the SEP

   - Turn the eSTOP knob on the SEP to STOP

3. Insert the SD Card

   - Insert the SD card into the slot under screen on the left side of the HMI.

4. Update via HMI

   - Follow the instructions displayed on the HMI screen.
   - Wait for the update to complete. You will see a message indicating a successful update.

5. Complete the Process

   - Remove the SD card.
   - Turn the eSTOP knob to RUN
   - Ensure all products are updated.

** Note: This method is only for updating the HMI