Device Configuration

Note: the following steps assume you have properly assembled the following hardware: Raspberry Pi, SixFab 3G/4G-LTE Hat, SixFab Power Management and UPS Hat, and Relay DLL, SD Card, and SIM Card.

Step 1: Turn on your device. Ensure that the power LEDs (Red LEDs) on the Raspberry Pi, 3G/4G-LTE Hat, and Power Management and UPS Hat are all on.

Step 2: Connect to the Raspberry Pi. There are 3 options to achieve this. Option 1 is to plug the device into a monitor and connect manually. Option 2 is to connect via VNC Viewer, a third-party program. Option 3 is connect via Terminal using the command 'ssh pi@' followed by the IP address of the Raspberry Pi. If SSH has not been enabled beforehand in the Raspberry Pi settings, you will not be able to use Option 3. If VNC has not been enabled beforehand in the Raspberry Pi settings, you will not be able to use Option 2. And if you don't know the IP address of your Raspberry Pi, you will not be able to use both Option 2 and Option 3. Therefore, for the most consistent results, use Option 1.

Step 3: Navigate to the following folder: /etc/wpa_supplicant/wpa_supplicant.conf. Verify that the WiFi information is correct and that there is **only one network** specified in the document. Save any changes to the folder and close it.

Step 4: Configure 3g/4g-LTE Hat with Raspberry Pi. Detailed instructions for how to do this are described here: https://docs.sixfab.com/page/setting-up-the-ppp-connection-for-sixfab-shield-hat. Note that the device communication port should be: ttyUSB3. Once you have completed this step, verify the configuration by running the command 'sudo pon'. Once verified, run the command 'sudo poff' to terminate the connection.

Step 5: Insert USB containing the file 'Setup.py' into the device. Download the file onto the device. Navigate to the following file: /etc/profile. You can do this with the command 'sudo nano /etc/profile'. Scroll to the bottom of the file, and add the following line: 'sudo python3 /home/pi/Setup.py &' where '/home/pi/Setup.py' is the path to your script. If you have selected a different path, use that path instead. Re-boot the device. The device should now be configured and connect to Wi-Fi automatically