

WiFi Folder

In the WiFi Folder is WiFi_Receiver, and WiFi_Coordinator. WiFi_Receiver should be flashed to the tank/s, and WiFi_Coordinator should be flashed to the ESP32 acting as a server. Once both are flashed, connect a device to the "ESP32-Access-Point" WiFi with the password "123456789", open a web browser, and go to "192.168.4.1" (without quotes). Just type that into the browser and hit enter. Once the page loads, ensure you enter valid commands, i.e. "f" and "1000" or something similar. I left the webpage very basic as I'm not sure which direction the UI team is going.

WiFiClient vs UDP:

This is using WiFiClient, but in hindsight I might have wished to have made it UDP, and I still might. My reason for that is, my understanding is that by using UDP commands get "sent" at once to everything connected or selected devices, whereas with WiFiClient the devices are "listening" for commands and only act once they have received those commands. I think it's very possible for their "listening" times to not sync up, and therefore if you have multiple tanks they could execute at different times. Maybe reduce their delays for checking for new commands? I did also see that UDP packets might not guarantee delivery so that could be a big factor against them, especially if the tanks are listening at such a rapid pace that any difference is miniscule and easily ignored.