

### ESP2 (192.168.1.105)

Sensor	(MQTT Topic / SignalK Path)
Fuel tank Level	(/tanks.fuelUC.currentVolume)
Holding Tank Level	(/tanks.blackWater.currentVolume)
Fresh W Tank Level	(/tanks.freshWater.currentVolume)
Mixing Elbow Temp	(/exhaustTemperature)
Engine Room Temp	(/environment.inside.engineRoom.temperature)
Alternator Temp	(/electrical.alternator.temperature)
Saloon Temp	(/environment.inside.mainCabin.temperature)
Saloon Pressure	(/environment.inside.mainCabin.pressure)
Saloon Humidity	(/environment.inside.mainCabin.relativeHumidity)

ESP2  
192.168.1.105

### Raspberry Pi3b "NavPi"

- 192.168.1.103
- OpenPlotter
  - OpenCPN
  - Node-Red
  - SignalK
  - VNC Server

### Cockpit Repeater (VNC)

- Android Tablet
- VNC Client

### NavStation Display

- Android Tablet
- Node-Red Dashboard

### ESP5 (192.168.1.107)

Sensor	(MQTT Topic / SignalK Path)	[MQTT Control command]
Mains Battery Charger Relay	(/electrical.chargers.house.state)	(/cmd GPIO,12,1/0)

ESP5  
192.168.1.107

ESP6  
192.168.1.10?

### ESP6 (192.168.1.tbc)

Sensor	(MQTT Topic / SignalK Path)	[MQTT Control command]
House Battery Voltage	(/electrical.batteries.house.voltage)	
House Battery Current	(/electrical.batteries.house.current)	
Start Battery Voltage	(/electrical.batteries.start.voltage)	
Start Battery Current	(/electrical.batteries.start.current)	
Thruster Battery Voltage	(/electrical.batteries.thruster.voltage)	
Thruster Battery Current	(/electrical.batteries.thruster.current)	
Start Charger Relay	(/electrical.chargers.start.state)	(/cmd GPIO,5,1/0)
Thrust Charger Relay	(/electrical.chargers.thruster.state)	(/cmd GPIO,4,1/0)
Solar Charger Relay	(/electrical.chargers.solar.state)	(/cmd GPIO,15,1/0)
Engine ON Signal In	(/propulsion.state)	
Coolant FlowSwitch	(/propulsion.flowsWitch.state)	

SSID "Vodafone MiFi"  
DHCP Server  
WiFi & Admin  
"Vodafone MiFi"

INTERNET

Home Router

Android Phone or Tablet

- MQTT Dash

### Raspberry Pi3b "HomePi"

- Node-Red
- SignalK
- VNC Client
- InfluxDB/Grafana