

Agenda 17/5

Location: WRC Meeting Room

Date: 17/5/24

Time: 2:00pm - 3:00pm

Attendees

- [@Benjamin Ireland](#)
- [@Finlay Cross](#)
- [@Raith Fullam](#)
- [@Ronniel Padua](#)
- [@Se Hyun Kim](#)
- Andreas Willig
- Graeme Woodward

Apologies

Agenda Items & Notes

Objective

This meeting is used to share announcements and project updates. Please add your weekly updates to the agenda below. Guidelines are to share 2-3 high point updates on your progress since our last meeting and what you are going to do for the next week.

- **Topic 1 - GUI**
 - Current wireframes of GUI update, more ideas or direction advice would be helpful
 - Working on application logic
- **Topic 2 - Control**

- Finished writing controls but problems with dependencies and make files which is delaying simulation
- Re moved leader drone → different system
- Moving away from predetermined path to a system where the drones would follow the node (target)
- Will take 1~2 weeks to be ready
- **Topic 3 Networking**
 - Around 85% done
- **Topic 4**
 - Updating meeting times

Minutes

- Wire frame
 - simple list is needed for now (not many drones to be done)
 - colour coding with software
 - deprecated software drones show red, current has green
 - **Do we need current / depreciated?**
 - instead show by software version, *click on software and see what drones are using that software — instead of by drone then software*
 - makes it easier for future holding (every software update will need to then update gui with what versions are deprecated)
- What is the x?
 - use wifi Mac addresses as primary name for each drone
 - can get info once with MAC address - get IP address
 - **Drones sitting on ground - don't see Mac addresses as main identifier**

- have friendlier names - correspond with stickers on drones (for user friendly)
- Combination of both - not hard coded with those names as only unique thing
- GPS map to identify — Q ground control
 - get name convention to cross over to Q ground control
- Report software version?
 - Referring to software that we developed
 - **would be nice to also have the ROS version and Linux Ubuntu Version (20.4 something)**
 - versions of software critically rely on
- **Add sorting tables**
 - sort by OS, Drone, Software (sort by column)
- GUI has two different functionality
 - 1: *Software updates etc*
 - 2: *Monitoring the actual application once it is going (once formation is going)*
 - Other things
 - *List of active drones*
 - Also good to have list of variables that are active (from VarDis?)
 - have no info on types — hard to display — might need to encode this somewhere
- Telemetry
 - software version.
 - Flight data being transmitted
 - drone type
 - Position / GPS
 - Everything that is need
- *Drone on Wireframe is only the connected?*
- Pre mission or during Mission thing?
 - have different data
- **first Priority should be pre-flight**

- What does debug do
 - click and display Mac addresses
 - or could enter a debug mode
 - not usual things seen by user
- **Populate with dummy data — examples**
 - Case: drone 3 is out of date with software
 - drone 3 is red, other drones green(more if more)
 - Case: ____ ?
- ***Next week, get updated version - which one is to be updated***
 - ***Combine all tips***