

# Agenda 8/7

**Location:** WRC Meeting Room

**Date:** 8/7/24

**Time:** 12am-1pm

## Attendees

- [@Benjamin Ireland](#)
- [@Finlay Cross](#)
- Andreas Willig
- Graeme Woodward

## Apologies

- [@Raith Fullam](#)
- [@Ronniel Padua](#)
- [@Se Hyun Kim](#)

## 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 - Controller Simulation**
  - We currently have two drones forming a formation in a gazebo simulation.
  - Finishing off a temporary target drone program to simulate its target tracking.
  - Aim to simulate three drone swarm tracking target drone in gazebo by end of this week.
- **Topic 2 - uXRCE-DDS**

- MAVROS package replacement, still uses MAVLINK but changes message definitions slightly.
- Swapped after a week of trying to integrate MAVROS with ROS2, as issues with the "supported" MAVROS and ROS2 communication for the controller.
- **Topic 3 - Network (Raith's Update)**
  - Finished:
    - Payload construction (before transmit)
    - Payload deconstruction (processing after receive)
    - DB is now in-memory, on track as discussed in demo.
  - If possible, just touch on an email I sent a couple weeks ago clarifying the DB speed and what he wants me to switch the subscribers/publishers for.
- **Topic 4 - Visualiser Update**
  - Completed basic GUI communication with the drone.