

Drone Mesh TAK Demo Setup



1. Power on the Router and connect Raspberry PI (RPI) to router with an ethernet cable to any port except the labeled internet port.
2. Power on the RPI by plugging in its USB C power supply. RPI will auto power on with power connected.
3. Confirm that the ATAK Phones are connected to the NETGEAR5G Wifi. If required, the password to the network is on the bottom of the router.
4. Open ATAK Android App on the two TAK Phones. Open the hamburger menu in the top right and navigate to Settings>Network Preferences>Network Connection Preferences>Manage Server Connections.
 - a. There will be one preconfigured TAK Server in this menu. Wait until the status indicator of this server changes from RED to GREEN indicating that the server is up and running. This could take up to 5 Minutes. You should not have to refresh this page to see the indicator change.

5. Confirm that the TAK Server Relay tablet(s) is also connected to the NETGEAR5G Wifi.
6. On the TAK Server Relay tablet, start the drone mesh TAK streaming script located on the desktop.

swarmcot-COMX
7. If a COM port open failed message appears on the swarmcot output, close the script. Then edit the COM port in the config.toml file ([serial] – port) to match the TAK serial port. Typically, the first of three ports. Save the file and try the swarmcot script again.
8. Wait another 5 minutes maximum as the script begins to publish data to the TAK server. This can be seen on the script output screen as it receives data from the mesh. There will be a long line of parameters with an ID then a “published 1 message to TAK” confirmation message. You should then be able to see the IDs location on the ATAK phone if a GPS position was found. If the ID did not have a GPS position, its location on the map will be 0 lat 0 long off the coast of Africa.

Version History

Date and Signature	Revisions	Reasons for Revision
05/03/2024 Jack R.	Document was written. (v01.00.00)	



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