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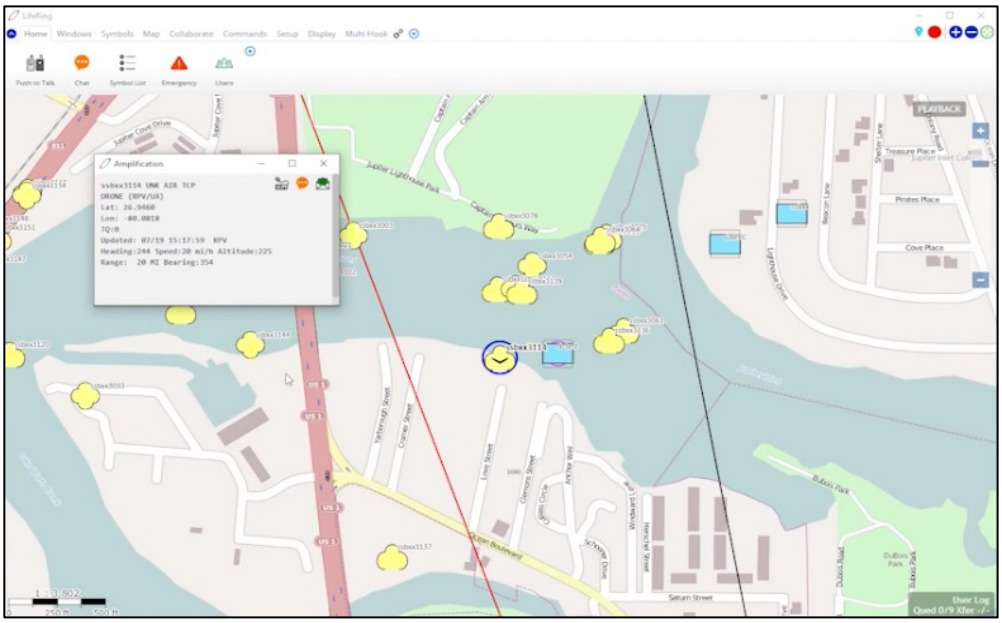
UAV Swarm Defense using EchoShield Radar and AGIS C5ISR System

UAV SWARMS operating jointly attack targets presents a complex and time critical issue to defend against. AGIS has started to address this issue. Specifically, we have integrated our SWARM display system to process data from a radar specifically designed to rapidly track large numbers of UAVs in a SWARM.

Echodyne's EchoShield radar system is designed to track UAV SWARMS. It processes 100s of returns with an extremely fast revisit rate distinguishing between different types radar returns including birds, vehicles, aircraft, and UAVs. By analyzing various characteristics of the radar returns, such as size, shape, and movement patterns, the EchoShield radar automatically classifies the objects and sends this data to the AGIS SWARM display system. See below.

EchoShield Radar



AGIS' SWARM System Displaying an UAV SWARM

AGIS is proposing to add to this system an ability for the display operator to select UAVs from the display and designating them for weapon system engagement and destruction. We are looking for UAV Weapon providers that would be interested in our integrating with their systems. We currently have PC and Smartphone software that can receive the UAV location data but need to address the display issue of indicating which of the UAVs the radar display system is directing the UAV weapon system to engage.

To see our SWARM display system automatically processing UAV data look at this video where we are using the EchoShield radar to track UAVs, one of which we are receiving video from. See- https://www.agisinc.com/videos/EchoDyneDemo.mp4

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