

PROxyTechnologies Unmanned Software

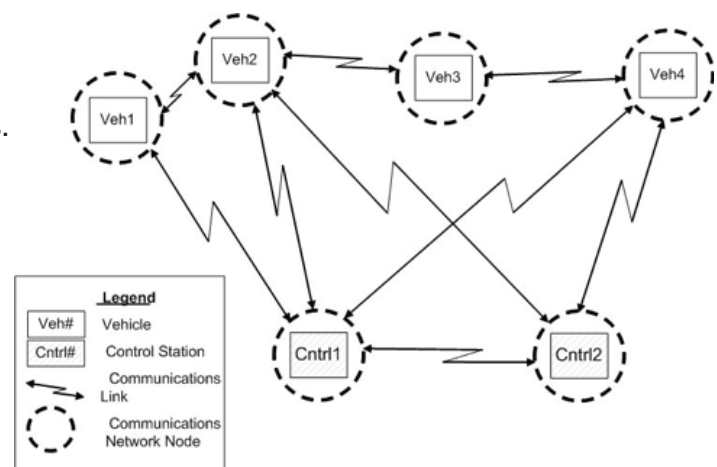
Breakthrough technology providing sensor centric capability allowing UAVs to behave with a large degree of autonomy while meeting the needs of the sensor and communication systems on the vehicle.

Key Software Capabilities/Features:

- Rule-based expert system that permits execution of complex behaviors without operator input
- Sensor characteristics and capabilities integrated into navigation algorithms optimizing sensor performance
- Sensor control algorithms automatically control sensor in manner that correlates with the programmed navigation plan and collects data that meet the ISR data requirements of the mission
- Navigation control algorithms automatically move the aircraft to optimize the sensor's data collection capability
- Operators free to focus on evaluating real-time data from UAV's Sensors
- Higher level of precision navigation than possible with human operators
- Mesh Communication Network Approach:
 - Direct vehicle to vehicle communication permits cooperation and collaboration in the performance of shared mission goals or relevant data
 - Lost link restoration: latest data is retrieved once communication link is restored
- Open Architecture Design supports “Open Architecture” standards allowing for easy integration into Command, Control, Communication and Intelligence (C3I) systems.

Benefits:

- Cooperation: Platform and Sensors collaborating together
- Operators able to concentrate on ISR data they are collecting instead of controlling the UAV
- Operators act as “mission managers” able to make instant mission adjustments



US Patent No. 8,788,121; US Patent No. 8,874,360