

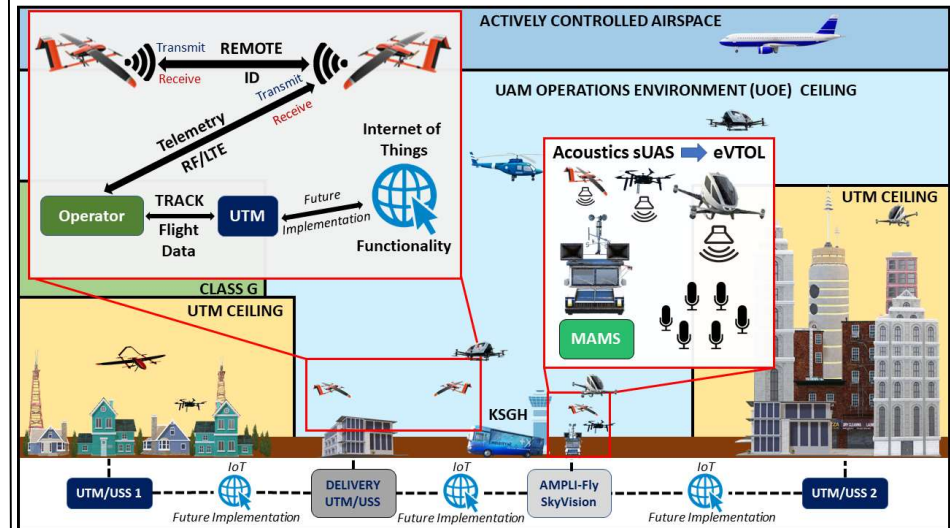
Acoustic Management Positive Location Interface (AMPLI-Fly) (Proposed OFRN Round 5)

Contact Information Description

745 Baldwin Hall, University of Cincinnati
Cincinnati, OH 45221-0070
<https://ceas.uc.edu/uav>

POC: Bryan "Brown" Kowalczyk
Sr. Research Associate, UAV MASTER Labs
brownbp@uc.edu
Cell: 937-598-9159

AMPLI-Fly Architecture and Integration



Description of AMPLI-Fly Project

- What does it do?
 - Mobile Acoustic Management System for eVTOL and scale UAS testing
 - BVLOS Integration into SkyVision
 - Remote Identification Testing and Validation of Standards
- Why is it novel?
 - Limited systems allow for testing of acoustics during operations of eVTOLs
 - No systems allows for scale testing of UAS and eVTOLs
 - Remote Identification testing and integration into SkyVision and RouteMASTER
 - Distributed C2 and other Vehicle to Vehicle communications systems
- How will the technology be used?
 - Allow eVTOL manufactures and academia to collect real-world acoustic data
 - Integration into NAS for UAS using Remote Identification
 - BVLOS operations utilizing Remote Identification

Partners, Requirement(s) and Benefits

- OFRN Round 5 Partners
 - University of Cincinnati
 - Sinclair Community College
 - Demeter UAVs
 - Simlat Inc.
 - NOAL Technologies
- We are looking for:
 - Partners willing to explore testing and further development
 - Partners with communications background
 - eVTOL manufactures requiring acoustic data to be collected

Airspace Management

Command & Control

Comms

Power & Energy Storage

Propulsion

Sensors & Awareness

Other