

Regional Unmanned Traffic Management System (RUTMS) (OFRN Round 3)

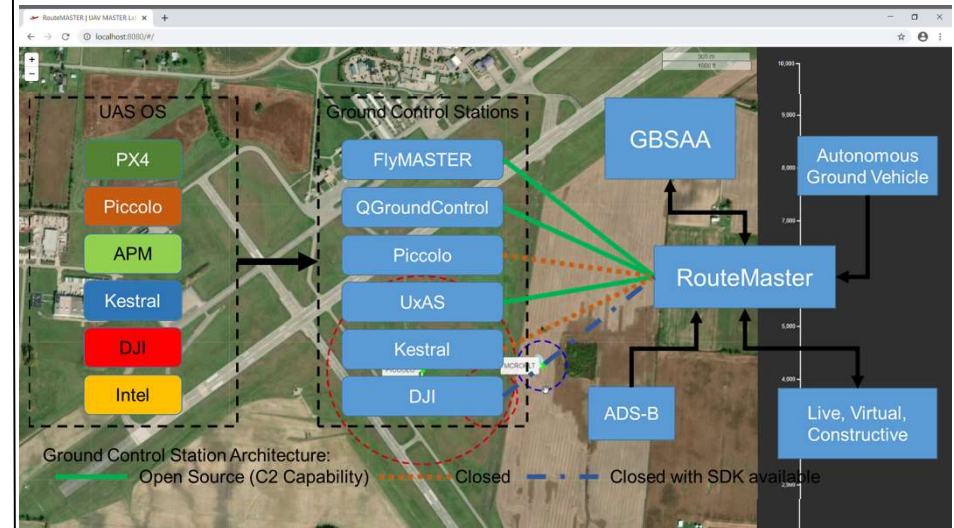
Contact Information Description

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

Autopilot Translators with RouteMASTER



Description of RUTMS Project

- What does it do?
 - Translator of autopilot and UAS data into SkyVision system
 - Provides Situational Awareness for UAS Operations
 - Integration of ADS-B and other communication technologies
 - Sense and Avoid with integration of TCAS and ACAS
- Why is it novel?
 - Allows for BVLOS operations and situational awareness of UAS in NAS
 - Integration of TCAS and ACAS allows operator to see projected vehicle paths
- How will the technology be used?
 - Translators are integrated into SkyVision and RouteMASTER
 - RouteMASTER is a standalone platform that is web-browser not requiring specific operating systems or software
 - RouteMASTER integrates with UTM/UAM systems such as ACAS and ADS-B

Partners, Requirement(s) and Benefits

- OFRN Round 3 Partners
 - University of Cincinnati
 - Sinclair Community College
 - Demeter UAVs
 - Simlat Inc.
- Benefits of the Technology?
 - Enables a wider variety of UAS and eVTOL to be operated BVLOS at Springfield and with SkyVision
- We are looking for:
 - Partners willing to explore testing and further developing RouteMASTER
 - Use cases to expand operations beyond Springfield

Airspace Management <input checked="" type="checkbox"/>	Command & Control <input checked="" type="checkbox"/>	Comms <input checked="" type="checkbox"/>	Power & Energy Storage <input type="checkbox"/>	Propulsion <input type="checkbox"/>	Sensors & Awareness <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
---	---	---	---	-------------------------------------	---	--------------------------------