

WHO

SYSCOM: NAVAIR

Sponsoring Program: E-2/C-2 Airborne Command and Control Systems Program Office (PMA-231)

Transition Target: E-2D Advanced Hawkeye (AHE)

TPOC: (301) 247-8566

Other Transition Opportunities: Other military air platforms.

Notes: Built on Fuse's CORE solution, a SWaP-considerate hardware solution certified as ruggedized and currently in use on various air platforms.



WHAT

Operational Need and Improvement: Traditional multilevel cross-domain security solutions require multiple devices running at different classification levels.

Specifications Required: 88 watt power usage.
Carrying capacity of 14.5 lbs.
28-VDC input usage support.

Technology Developed: A Small Size, Weight and Power MLS/CDS (multi-level solution/cross-domain security) integrated Hardware/Software (HW/SW) solution with different classification levels running on a singular, ruggedized device.

Warfighter Value: Increased access to critical metadata will allow warfighters to make more informed decisions, while decreased size, weight, and power concerns will allow for greater integration ability on platforms.

WHEN

Contract Number: N68335-22-C-0056

Ending on: Dec 30, 2022

| Milestone | Risk Level | Measure of Success | Ending TRL | Date |
|-----------------|------------|---|------------|--------------|
| Phase I Base | N/A | Develop MDDP based multi-level security-based network and computer-based architecture that mitigates aircraft integration changes | | 3rd QTR FY21 |
| Phase I Option | N/A | MDDP demonstration on representative architecture | | 2nd QTR FY22 |
| Phase II Base | N/A | Deliver a minimized SWaP MLS CDS that supports multiple security enclaves running at the SECRET level and above. | 6 | 1st QTR FY23 |
| Phase II Option | N/A | Qualification testing | 6 | 3rd QTR FY23 |

HOW

Projected Business Model: Unit sales with associated integration services.

Company Objectives: Find further integration opportunities for defense and commercial applications, either through direct sales to government or in partnership with a prime platform contractor.

Potential Commercial Applications: Commercial users in industrial controls have a need for CDS solutions. Surveillance systems for security, police, and first responders, boat and vessel manufacturers, building, and vehicle manufacturers all work to integrate multiple security enclaves into their designs. Additional, Fuse are targeting critical infrastructure entities to include electric utility companies, liquified natural gas facilities, commercial port security, oil pipelines, and healthcare facilities.