

# Axient Program Highlight: C-UAS, Radar, & Test Capabilities

## Executive Summary

Axient provides technical, logistics, and program management support services for the C-RAM System-of-Systems (SoS); including technical and engineering services, test target and logistics support, and professional/program management support to the Integrated Fires and Rapid Capabilities Office. Axient experts have:

- Integrated products from 19 OEMs into a System of Systems for C-UAS operations
- Analyzed and deployed 300+ complex C-UAS technologies and systems, from handheld to large, fixed site installations
- Planned, organized, and executed the 1st CONUS C-UAS Training Academy at Yuma Proving Ground for deploying units

## WE ALWAYS DELIVER.

Axient responded to a Department of the Army request in July 2018 to stand up a deployment-ready C-UAS Mobile Training Team capability focused on Army C-UAS systems, operations, and training documentation; Axient has continually responded to and executed short notice missions for these training teams directly from higher command with C-UAS MTT personnel – C-UAS engagement success rate at those forward operating bases visited by MTT went from 26% to 80.77%.

## CUSTOMER

**U.S. Army Program Executive  
Office Missile & Space**

## PROGRAM HIGHLIGHTS

Axient established an innovative and aggressive acquisition philosophy as Lead Systems Integrator (LSI) to select best-of-breed among 13 major prime contractors.

We developed a System of Systems (SoS) approach under an abbreviated timeline to spiral capability incrementally into theater to support the Warfighter; this anticipated evolving threats (waypoints/ autonomous) in conjunction with Electronic Warfare (EW) attacks.

Axient C-UAS MTT trainers were first into Afghanistan in 2018 and first into Iraq in 2019.

The Axient-created C-UAS Academy was selected by the Joint Staff to be the Joint Service C-UAS Training Academy.

Axient-developed Test Protocols for the Army C-UAS were accepted as the Joint C-UAS Test Protocols.





## Capabilities Applied

### R&D Tool Development

- Development & deployment C2 system for C-UAS operations in combat theaters
- Multiple reference frame projections
- Advanced correlation algorithms for better warfighter understanding
- Interactive GUI's & video presentation tools
- Advanced simulation development and training systems
- Wind tunnel engineering and design/subscale modeling

### Test Analysis & Presentation

- Integration of commercial subsystems into cohesive, tailorable, optimized system
- Market surveys to understand state-of-the-art and 'What's Deployable Today'
- Agile code/tool development
- Missile IR signatures modeling & prediction
- Hypervelocity materials test & analysis



### Systems Engineering

- Weapon system guidance engineering & technology analysis
- Failure investigation and reporting system database software
- System engineering of open system architecture to provide future-resilient systems
- Novel radar architecture development for advanced all-digital radar support
- IR/RF systems engineering and technology development

## About Axient

With over 2,200 employees, Axient is headquartered in Huntsville, Alabama and has provided premier services and solutions to the Federal Government for more than three decades. Axient's customers include the U.S. Army, U.S. Navy, Missile Defense Agency, U.S. Air Force, U.S. Space Force, and NASA. Axient is certified in the following: ISO 9001:2015, AS9100 Rev D, CMMIDEV Maturity Level 3, and has a DCMA Purchasing System, DCMA Property System, and DCAA Accounting System.

## Statistics

**300+** **16k+** **20**

C-UAS Systems  
Deployed

Personnel trained  
OCNUS since  
2018 (Army, Navy,  
USMC, SOCOM,  
NATO, and Coalition  
Partners)

Major test events  
for the Army and  
Joint Force