

Controlling the Drone Threat with Next-Generation C-UAS Layered Defense

D-Fend Solutions **EnforceAir** and SAIC **C-UAS Solution**



D-Fend Solutions and SAIC offer a multilayered, seamlessly integrated cyber system-of-systems solution to address complex Counter-Unmanned Aircraft Systems (C-UAS) environments. D-Fend's EnforceAir and SAIC's combined counter-drone system provide a superior RF-cyber capability for additional control, safety, and security benefits to operators across multiple environments, sectors and use cases.

OPTIMIZED COUNTER-DRONE CAPABILITIES WITH ENFORCEAIR

D-Fend Solutions' EnforceAir is a leading radio frequency (RF) cyber-based takeover solution. The system, in either autonomous or manual mode, detects, locates, and identifies rogue drones in the airspace, and then neutralizes the threat by taking full control over the drone and landing it safely in an operator-determined pre-defined zone. EnforceAir's surgical cyber takeover and safe landing avoids collateral damage, interference, disruption, and disturbance to normal everyday operations. In addition, it allows authorized drones to operate as usual, without any interference.

EnforceAir provides real-time grid coordinates: for the drone, for the takeoff location, and for the pilot ground controller.

EnforceAir has been named and recommended by the U.S. Department of Defense's (DoD) Joint Counter-small Unmanned Aircraft Systems Office (JCO), as a subsystem integrated into SAIC's system.

- **Detection** – Provides the ability to detect UAS threats, prioritize them based on distance, speed, and direction with no false detections
- **Tracking** – Once detected, UAS threats can be located and tracked, including the drone, pilot/remote controller and take-off position
- **Identification** – Provides positive ID of threats on target as C2 analyzes mitigation options
- **Mitigation** – Allows operator to rapidly neutralize UAS threats and capture the drone for further analysis

**ENFORCEAIR
TACTICAL
DEPLOYMENT**



KEY BENEFITS OF THE ENFORCEAIR-SAIC JOINT SOLUTION

- Combat-proven components, platform-agnostic, reduced staffing requirements and increased detection and mitigation range
- Mobile & on-the-move capability to passively monitor and defeat RF-controlled drones, while additionally detecting and defeating "silent flight," or ground or other threats
- Cueing other SAIC's sensors & mitigators, for a layered in-depth defense controlled by a single C2 system
- Additional mitigation capabilities for a more controlled, less disruptive defense
- Easy and accurate identification of drone operator location and elimination of rogue drones with real-time location accuracy of airborne threats, takeoff locations, and operator's hand controller location

Drone Security That is Ready to Integrate

SAIC C-UAS Solution and D-Fend Solutions EnforceAir

SAIC and D-Fend Solutions take a system integration forward-approach for rapid integration, supporting existing and future capabilities. The joint solution is highly tailorable and scalable according to mission requirements and specific threats and environments

SAIC APPROACH

TECHNOLOGY AGNOSTIC * CONFIGURABLE * SCALABLE * MODULAR

SAIC integrates EnforceAir into a mission-flexible and ready C2 solution without degrading core performance parameters. SAIC's solution is developed with proven modular open-systems architecture design and mature and adaptive technology, integrating EnforceAir as a core working element of the solution.

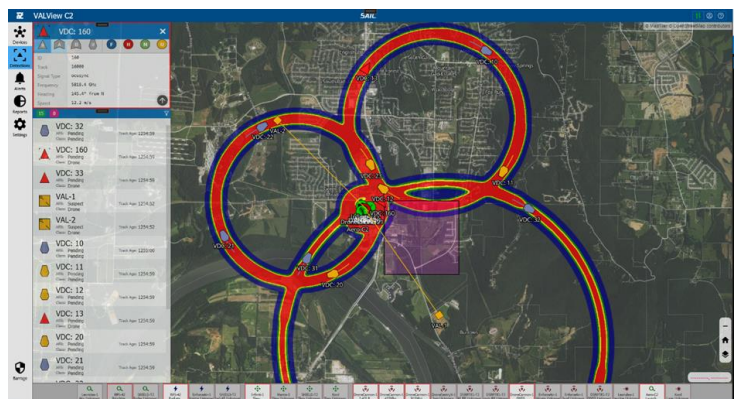
SAIC's solution is a flexible, scalable, and configurable "as-a-service" approach to UAS threats, implementing joint standards for integration and interoperability.

INTEGRATION FOR MULTI-TECHNOLOGY DEFENSE

EnforceAir and SAIC's joint solution can detect, track, identify, and defeat sUAS threats as part of a comprehensive C-UAS defense system-of-systems solution. From an operational perspective, this layered approach provides a tailored technical solution to any operational need.

SAIC's solution incorporates EnforceAir's radio frequency detection and mitigation capabilities for complete effectiveness across a range of threat types and environments. SAIC's standards-based, open architecture C2 software is fully integrated with EnforceAir's features, enabling automated mitigation and reduced staffing requirements by correlating key target data for users and decision-makers to support operational missions.

Real-time grid accurate coordinates help the operator dispatch a ground intercept team to reach the pilot while simultaneously mitigating the drone threat. The operator can employ EnforceAir to take control of the drone, send it to an appropriate safe area or kill box and examine the drone with EO/IR cameras, or destroy the drone if desired. Integrating the solutions leads to a much higher probability of eliminating the drone threat and dealing with the drone pilot while providing a safer outcome for troops, personnel, and infrastructure.



THE ENFORCEAIR-SAIC INTEGRATED SOLUTION

D-Fend Solutions and SAIC offer an enhanced multilayered system-of-systems solution to address today's complex drone threats with in-depth defense mechanisms that can be selected according to situation and security considerations. A layered more advanced technological approach reduces the chance for collateral damage or operational disruption. EnforceAir has been successfully integrated, tested, and validated with the SAIC system.