Areas of Interest (AoI): 87 CONS Radio Frequency (RF) Spectrum Monitoring System

Issued By

Program Office: 87 CONS, Joint Base McGuire-Dix-Lakehurst (JB MDL)
Contracting Office**:** 772nd Enterprise Sourcing Squadron

AoI Identifiers

AoI Title: Radio Frequency (RF) Spectrum Monitoring System
CSO AoI Number: Closed – 26 – 10. POCs: Mr. Alexander Kouba and Mr. Ramnarine Mahadeo
AoI Release Date: 04/20/2026
Responses: See FA890326SC001 for submission instructions in addition to Administration and Submission Instructions paragraph below

Overview

The 87th Contracting Squadron (87 CONS), is seeking innovative solutions from enterprise and industry partners for a proof-of-concept project. The primary objective is to execute the installation of a proven Commercial-Off-The-Shelf (COTS) Radio Frequency (RF) spectrum monitoring and Unmanned Aircraft System (UAS) tracking system at JB MDL and potentially additional Department of War (DOW) locations. The overarching goal is to leverage this system to develop and refine Tactics, Techniques, and Procedures (TTPs) for its employment across a typical United States Air Force (USAF) installation. Equipping installations with layered defense systems provides early warning and detection capabilities to mitigate aerial risks and installation breaches.

This AoI invites industry to propose novel solutions that not only meet the technical requirements but also contribute to research objectives aimed at enhancing base security, operational awareness, and future Counter Small Unmanned Aircraft Systems (C-sUAS) strategies. The focus is on the innovative application, integration, and delivery of these technologies.

Concept of Operations

87 CONS is working on implementation of a static and complete sUAS RF Spectrum monitoring system to improve base security and ensure effective response capability to sUAS incursions. The 87th Contracting Squadron established two (2) primary Lines of Efforts (LOEs) to directly address the needs of the emerging strategic and technological environment in which we operate. These lists are intended to be representative, not exhaustive.

LOE1: Performance Objectives

Requires a comprehensive solution to address emerging security challenges related to the airborne and ground domains. The proposed system must be capable of meeting the following primary operational needs:

- **sUAS Incursion:** Monitor known and potential incursion routes for non-cooperative Small Unmanned Aircraft Systems (sUAS).
- **General Incursion Monitoring:** Detect and monitor for other unauthorized incursions,

such as personnel (e.g., hikers) within restricted areas like firing ranges.

- **Spectrum Monitoring:** Perform continuous, 24/7 monitoring of the RF spectrum to establish a baseline and detect anomalies.
- **Data Dissemination:** Initially provide real-time situational awareness and tracking data to Base Security Forces and the Base Spectrum Manager.

LOE2: Proof-of-Concept Research Objectives

A key goal of this effort is to use the proof-of-concept to research and determine the following:

- **Data Integration:** What data should be provided to Base Operations and/or Air Traffic Control, and what are the most effective methods for dissemination?
- **System of Systems Integration:** If the system features an Application Programming Interface (API), how can this API be used to integrate with a holistic counter-sUAS (c-sUAS) IT system (e.g., CLUE, MEDUSA, or COTS solutions like Anduril Lattice)?
- **Data Management:** How can system data be managed to provide necessary situational awareness to base forces while avoiding undue surveillance of civilian areas outside the base perimeter?
- **Law Enforcement Partnership:** How can the collected data be leveraged to form effective partnerships with state and local law enforcement agencies?
- **Shift in c-sUAS:** Can the system enable a shift from solely tracking and engaging the sUAS to a model focused on rapidly locating and apprehending the operator?
- **API Utility:** Can the system's API be utilized by other on-base entities, such as Test and Evaluation units?

While this includes common commercial products and services, the Government is not seeking to simply procure these items. Instead, the focus is on the innovative application, integration, and delivery of these technologies. Vendors are encouraged to propose novel solutions that leverage these components to deliver significant improvements in performance, cost-efficiency, security, or mission capability, whether through innovation in the technology itself, the proposed architecture, or the business or service-delivery model.

Capitalizing on new industry proven methods is a stated imperative. As such, each LOE requires consistent and iterative access to enterprise and industry partners who are developing new cutting-edge technologies and innovative implementation models.

Requirements

The Government is seeking innovative commercial solutions that provide advanced Radio Frequency (RF) Spectrum Monitoring System capabilities. This AoI is focused solely on identifying and evaluating commercially available technologies that can meet or exceed the Government’s stated performance needs.

Participation in this AoI, including submission of concepts or demonstrations, does not guarantee selection for any subsequent procurement. Any additional requirements, follow-on activities, or acquisition actions will be initiated separately at the Government’s discretion.

Because the capabilities sought may support sensitive national security missions, respondents must demonstrate the ability to perform all required activities in accordance with applicable security requirements. Vendors must be capable of handling information at the security classification level associated with the work. Specific classification levels and handling requirements will be identified within the performance documentation and any subsequent contractual materials.

Administration & Submission Instructions

A Spiral 1 Written Solution Brief, per 7.1.2 of the FA8903-26-S-C001_SPEED_CSO_Rev 2_16Apr2023, should be sent via e-mail submission with subject line stating "Radio Frequency Spectrum Monitoring System" to the POCs listed below by the date and time this AoI closes - 5:00 P.M. (CDT) on 27 April 2026. Evaluation of the provided solution brief will be performed IAW 7.1.3 of the same document.

Points of Contact

Questions may be sent to:

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