S²MARTS Project: 21-08 Standardized High Level Data Fusion System Architecture for Counter Unmanned Aerial Systems (HLDF CUAS)
Project TalX Question & Answer | Date: March 22, 2021

1. Question: Would meetings with the program management team be at Crane?

Answer: Programmatic meetings may be held at NSWC Crane, IN and NIWC Pacific San Diego. Recurring phone conferences and/or VTCs will also be scheduled.

2. Question: Would meetings with the program management team be classified?

Answer: Programmatic meetings will be held at the UNCLASS level with appropriate cybersecurity protections, but some technical meetings may require access to SECRET material at an appropriate facility.

3. Question: Is the SIL at Crane?

Answer: Yes, though multiple SILs will be considered.

4. Question: For which existing CUAS (or C2) systems does the government expect to provide documentation in Phase 1?

Answer: This information will be provided after selection. If there is existing knowledge that can be used or OCI considerations, they should be identified in the solution offered for appropriate consideration.

5. Question: What is the balance/emphasis between CUAS and CsUAS applications?

Answer: The emphasis is on drones in Groups 1-3, though it is envisioned that the HLDF architecture may support CUxS applications.

6. Question: Can you please confirm that offerors should include the unfunded pieces of the proposal in our price volume as unfunded options?

Answer: Offerors may discuss their proposed approach to unfunded portions.

7. Question: Does the government want or not want the white paper rollup costs to include the amount for phase 4 which is listed as unfunded?

Answer: Offerors may discuss the approach for phase 4 and estimate their costs for phase 4.

8. Question: How much data will be time series data? Can the government guarantee the data is good quality, sensors are accurate/ and are fully validated?

Answer: Most sensors will deliver time series data, however the quality of the data cannot be guaranteed nor can it be guaranteed that data will be delivered in time series order. We will be interfacing with real world sensors that may or may not be calibrated, that may or may not be interfered with, and that may or may not detect all objects.

9. Question: are all three phases assumed to be sequential, or is the government open to performing with phase 3 beginning before phase 2 concludes?

> Answer: The phases may occur at least partially concurrently.

10. Question: How many awards are anticipated?

> Answer: The Government does not have a specific number, however it is known that the skill sets required for the various phases may not exist in a single company, so multiple awards are anticipated.

11. Question: One Q&A said phase 1 must be priced and phase 2 could be priced. Does phase 1 include assessment, design, and integration? Is Phase 2 the follow-on work?

> Answer: Phase 1 is the assessment of current DoD and/or commercial systems. Phase 2 is the design of the HLDF architecture. Phase 3 is the integration of existing capability into the defined HLDF architecture.

12. Question: Can NSTXL provide the identified NSWC and NIWC project team POC info?

> Answer: No, responses and inquiries must be made to the POCs already identified.

13. Question: Are you open to a contractor using an existing CUAS solution and SIL at their facility in addition to standing up the SIL at Crane?

> Answer: As long as the Company's SIL conforms to the defined HLDF architecture and applicable cybersecurity standards, and the Government receives the information necessary to stand up and operate the SIL with the same level of capability.

14. Question: Does the USG perceive any potential OCI by CUAS system OEMs?

> Answer: Each offeror will have to determine if there is an OCI. The HLDF architecture is meant to be open and applicable to any CUAS system, not just a specific CUAS system.

15. Question: Can the SIL be integrated unclassified remotely or is continuous integration needed to be done at the lab in crane at the secret level?

> Answer: The SIL, and HLDF architecture, are meant to operate at the UNCLASS level. CI/CD methodologies, as well as remote administration and updating (with appropriate cybersecurity protections), will be considered.

16. Question: Are we to propose providing an open architecture to support HLDF capabilities, or are we to also include the development/integration of modules to perform HLDF?

> Answer: The Government wants to define an HLDF architecture and then instantiate it by reusing as much existing capability as possible. Only capabilities that do not already exist will be targeted for development.

17. Question: Do you have a preferred interoperability standard to build upon (for example, USAF OMS/UCI, SAE-JAUS, Navy UMAA)?

> Answer: The Government will consider all technical approaches; however, the proposed solutions will be evaluated for the ability to support system of systems interoperability from the tactical edge to forward

locations up to Joint Forces command level. The ability to integrate current and future systems should be considered in the offerors response.

18. Question: Is the funding limit only for Phase I and Phase II?

Answer: The government did not break the funding down into specific allocations.

19. Question: How many awards are anticipated?

Answer: See question 10.

20. Question: Is there a deliverable of Data Fusion Software built in phase 2 or is it in phase 3?

Answer: Phase 2 is the definition of the HLDF architecture. Phase 3 is where software will be actually running in a SIL.