DEPARTMENT OF THE AIR FORCE
BUSINESS AND ENTERPRISE SYSTEMS DIRECTORATE
MAXWELL AIR FORCE BASE, GUNTER ANNEX ALABAMA

13 December 2013

Subject: Request for Information (RFI) No. 14-0004 for Air Force Life Cycle Management Center/Maintenance Group (AFLCMC/HIAM) Integrated Maintenance Data System (IMDS) Central Database (CDB) Assessment Modernization Study.

THE GOVERNMENT DOES NOT INTEND TO AWARD A CONTRACT ON THE BASIS OF THIS RFI OR REIMBURSE ANY COSTS ASSOCIATED WITH THE PREPARATION OF RESPONSES TO THIS RFI.

1. **Contracting Officer Address**:

    AFMC LCMC/HIK, Bldg 856, Rm 125
    490 East Moore Dr.,
    Maxwell AFB-Gunter Annex, AL 36114.

2. **PURPOSE:**

    The purpose of this RFI is to solicit feedback from industry concerning the attached DRAFT Performance Work Statement for Integrated Maintenance Data System (IMDS) Central Database (CDB). This RFI is issued solely for information and planning purposes and does not constitute a solicitation. All information received in response to this RFI marked Proprietary will be handled in accordance with applicable regulations and statues. Responses to the RFI will not be returned. Information provided in response to this RFI will be used to assess market information, capabilities, tradeoffs and alternatives available for determining how to proceed in the acquisition process. In accordance with FAR 15.201(e), responses to this RFI are not offers and cannot be accepted by the Government to form a binding contract.

3. **DESCRIPTION**:

    The Air Force Lifecycle Management Center (AFLCMC) Program Executive Office (PEO) Business Enterprise Systems (BES), Logistics Legacy Division Maintenance Branch (HIAM), herein after referred to AFLCMC PEO BES/HIAM, located in Maxwell AFB-Gunter Annex, AL is the Program Management Office. The existing IMDS CDB sustainment trajectory is incompatible with recent fiscal realities and functional user needs within the government, and given this environment, modernizing IMDS CDB has become an economic imperative. As a result, AFLCMC PEO BES/HIAM PMO is conducting market research to seek qualified contractors to commission a study assessment and analysis that will allow the unraveling of all IMDS CDB system's technical complexities and highlight opportunities that will enable decision makers to consider future system modernization efforts.

IMDS CDB is the Air Force's base-level automated maintenance information management system. IMDS CDB provides peacetime and wartime readiness and operational support of aircraft, missiles, Unmanned Aerospace Systems (UAS), trainers, vehicles, simulators, communications-electronics, and support equipment for maintenance activities. The system is used primarily to assist managers in making decisions by presenting data that provides effective scheduling of equipment usage, work, and the labor force. The system collects data necessary to support local manager's requirements, mechanize the record keeping function, and produce reports required by off-base agencies or by local management. The system supports 239,000 users across 82 AFSCs spanning the Active Duty force, Air National Guard/AF Reserve units, and Royal Netherlands Air Force (RNLAF) locations.

IMDS CDB is designed to operate on the Unisys Dorado 780 mainframe. PCs with either terminal emulation software and/or standard web browsers are used by users to communicate directly to the system. The system has 16 interfaces and 17 subsystems (see attached ISP for details). The IMDS CDB system leverages a dual database structure consisting of a hierarchical and Relational Database Management System (RDBMS) database. The system's code base consists of over 3.11M lines of code, 45,000 function points, and 4,000 configuration managed items. The bulk of IMDS is written in COBOL 85, but includes a number of other programming languages including JAVA, JavaScript, Extensible Mark-up Language (XML), and Hyper Text Mark-up Language (HTML), Cascading Style Sheets (CSS), and Extensible Stylesheet Language Transformation (XSLT).

4. ADDITIONAL INFORMATION:

The contemplated contract types are Fixed-Price-Incentive-Fee (FPIF), Cost-Plus-Incentive-Fee (CPIF) and Cost-Plus-Fixed- Fee (CPFF). Place of Performance may take place in Bldg 888, Second floor Maxwell-Gunter Annex, AL or at Company's facility or remote location.

The future modernization effort will be awarded separate from the IMDS CDB modernization study. The Government believes a potential Organizational Conflict of Interest (OCI) may exist due to the nature of this requirement. The government is currently pursuing avenues to address avoidance, eliminate, and/or mitigate the potential OCI. Further details will be made available upon Contracting Officer determination.

5. REQUESTED INFORMATION:

Vendors are requested to answer:

Technical

1. Describe interested vendor's experience and perspective on conducting large legacy modernizations via an architecture driven modernization paradigm. What were the outcomes, cost savings, timelines, and issues and roadblocks uncovered?

2. Has interested vendor ever run into issues using an automated tool/parser on legacy COBOL 85' code? Are there any specific risks that should be mitigated

with regard to migrating COBOL code?

3. Can the Object Management Group's (OMG) Knowledge Discovery Metamodel (KDM), Abstract Syntax Tree Metamodel (ASTM), and Semantics of Business Vocabulary Rules (SBVR) specifications be leveraged for future modernizations? What are interested vendor's thoughts on the model's effectiveness in describing the system? Do you believe these products can be leveraged to foster competition for future modernization work? Are these artifacts machine readable and compatible with your tools? Have interested vendor ever come across any problems when using this specification?

4. Describe what tool interested vendor's utilize to aid in conducting an assessment of the as-is model described in the attached draft PWS. Can interested vendors' tools be used to capture as is system and be exported into a vendor neutral format like the OMG specifications?

5. Are there any other measures of effectiveness or key performance indicators that should be included when executing a modernization assessment?
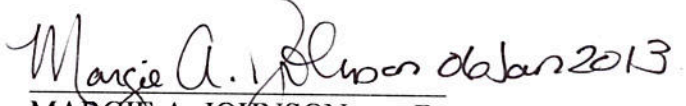
Programmatic

6. Based on interested vendor understanding of the Draft PWS, has interested vendor identified any risks and/or gaps in the draft PWS and your understanding of the work to be accomplished?

7. In company's experience, describe where cost savings have been realized in past modernization projects. Does this include reducing the existing sustainment footprint? Did modern languages and modernized systems cost less to maintain?

8. Are the financial metrics that are being asked for feasible based on the information gained within the system? Do they depict a good business case? Are there others that you would recommend be included?

9. Aside from the IMDS DoDAF architectures (OVs, SVs, TVs) and the Information Support Plan (ISP), previous use cases, what else would you include in the RFI?

10. What is the relative cost for assessments of this scope? Does 2-3% of the full modernization seem like a reasonable benchmark for estimating target assessment costs?

11. What are company's thoughts on using Fixed-Price-Incentive-Fee (FPIF), Cost-Plus-Incentive- Fee (CPIF) and Cost-Plus-Fixed- Fee (CPFF) CLINs for the modernization assessment of this scope, size, and complexity?

12. How long have interested vendor seen assessments of this project's relative size and scope take to complete? Does 3-4 months seem like an unreasonable target for work completion?

13. What skills mix have been used for modernization assessment work and how many of each skill was preferable based on a project of this size, scope, and complexity (i.e. Software architect III (1), Programmer II (3), Systems Analyst II (4), etc)?

14. Are there any other areas we can improve upon that will enable the government to meet the objectives outlined in the draft PWS? Do you see any pitfalls that should be avoided?

15. What is the recommended feasible timeframe the government can expect to receive an Integrated Master Schedule upon award (i.e., 15 days after award)?

6. **RESPONSES:**

Vendors should forward their responses and any questions to IMDS CDB draft PWS to AFLCMC/HIK Contracting Officer, Ms. Margie Johnson, at Margie.johnson@us.af.mil or Contract Specialist, Capt Joshua Brock at Joshua.Brock@us.af.mil and Mrs. Kathy Owen Kathy.owen@us.af.mil by 2:00pm Central Standard Time (CST) 06 January 2014.

06 Jan 2013

MARGIE A. JOHNSON   Date
Contracting Officer