

## **SOURCE SOUGHT SYNOPSIS**

Air Force Product Data Services

Systems Management, Data Management, and Enterprise Migration Support

### **CAUTION:**

This market survey is being conducted to identify potential sources with the expertise, capabilities, and experience to meet requirements necessary for support of product data systems, data management, and system and data migration processes managed by the Product Services Division at Robins AFB. A secret level security clearance is required to support the classified portion of this requirement. Contractors/institutions responding to this market research are placed on notice that participation in this survey may not ensure participation in future solicitations or contract awards. The government will not reimburse participants for any expenses associated with their participation in this survey.

### **INSTRUCTIONS:**

1. The attached Performance Work Statement (PWS) contains a description of the Air Force Product Data Services - Systems Management, Data Management, and Enterprise Migration support requirements. This PWS, associated with the contract currently utilized to support the majority of the requirements, is expected to be revised and included in future contract actions. Please note that this PWS is subject to change prior to issuance of any related solicitation or contract award. However, the basic requirements outlined within this version of the PWS are expected to remain very similar in scope.
2. This Contractor Capability Survey allows contractors to provide a response outlining your company's capabilities. If, after reviewing this document, you desire to participate in the market research, you should provide documentation that supports your company's capabilities to meet these requirements. Failure to provide documentation may result in the government being unable to adequately assess your capabilities. If you lack sufficient experience in a particular area, please provide details explaining how you would overcome the lack of experience/capabilities in order to perform that portion of the requirement (i.e., teaming, subcontracting, etc).
3. Documents included in your response to this market research shall be limited to a maximum of 30 (8 1/2" x 11") pages total. Minimum font size shall be 12 point.
4. Questions relative to this market research should be addressed to Randy Miller, [randy.miller.22@us.af.mil](mailto:randy.miller.22@us.af.mil), 478-926-5871; Renada Bonham, [renada.bonham@us.af.mil](mailto:renada.bonham@us.af.mil), 478-222-3186; or Traci Messick, [traci.messick@us.af.mil](mailto:traci.messick@us.af.mil), 478-222-3158.

## REQUIREMENTS DESCRIPTION

### Air Force Product Data Services - Systems Management, Data Management, and Enterprise Migration Support

#### Program Description

Product data systems and processes managed within the Product Services Division are utilized to support the management, conversion, capture, storage, maintenance, retrieval, electronic distribution, transformation, and editorial processes associated with product data. The infrastructure includes standard DoD and locally implemented/developed systems. Product data currently managed within the environment at Robins includes data owned and managed by USAF organizations across the USAF enterprise. Currently, approximately 54,000 technical order documents/increments, comprising an estimated 8 million pages of various sizes; 17 million engineering data images; over 1 million Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) model files; and over 5 million part indenture configurations are managed within the environment.

Product Data Services (PDS) required technical support services include, but are not limited to system architect, administration, and database management/administration services necessary to manage and sustain hardware infrastructure and software components; services necessary to develop and execute system and data migration/transformation processes; and those services necessary to ensure system and data contingency infrastructure and operations are implemented, viable and documented. The following provides a partial list of the types of support required:

- Technical services to manage, maintain, and administer all computing hardware and software utilized to support the management, creation, sustainment, storage and distribution of technical and engineering data.
- Technical support to assist the government in development and execution of digital data support, sustainment and transformation strategies and processes, and to support development, conversion, storage, improvement, use, and migration/transformation of product data utilized in business and operations, and weapon system maintenance processes.
- Technical support to facilitate evaluation and implementation of hardware and software infrastructure, and data analysis, reporting and processing necessary to support transition of technical data systems functionality and data to recently adopted Air Force data standards, to newly implemented local system/data environments, and to Air Force enterprise-level systems currently in various conceptual, planning, development and/or implementation stages.
- Technical support services to establish, enhance and execute processes to discover, implement and maintain relationships/links between various types of product data (i.e., parts, drawings, technical orders).
- Technical services necessary to develop and execute processes to extract, capture, convert, and restructure data in order to establish and sustain product data element associations.

Refer to the draft PWS for a complete description of the required services.

## CONTRACTOR CAPABILITY SURVEY

### Robins AFB Product Data Systems Data Management and Migration Support Part I. Business Information

Please provide the following business information for your company/institution and for any teaming or joint venture partners:

- Company/Institute Name:
- Address:
- Point of Contact:
- CAGE Code:
- Phone Number:
- E-mail Address:
- Web Page URL:
- Size of business pursuant to North American Industry Classification System (NAICS) Code: 518210,-Data Processing, Hosting, and Related Services. Size Standard: \$32.5M

Based on the above NAICS Code, state whether your company is:

- Small Business (Yes / No)
- Woman Owned Small Business (Yes / No)
- Small Disadvantaged Business (Yes / No)
- 8(a) Certified (Yes / No)
- HUBZone Certified (Yes / No)
- Veteran Owned Small Business (Yes / No)
- Service Disabled Veteran Small Business (Yes / No)
- System for Award Management (SAM) (Yes / No)
- A statement as to whether your company is domestically or foreign owned (if foreign, please indicate the country of ownership).

Responses must be received no later than close of business June 13, 2019. Responses must be sent electronically to the following:

- Randy Miller ([randy.miller.22@us.af.mi](mailto:randy.miller.22@us.af.mi))
- Renada Bonham ([renada.bonham@us.af.mil](mailto:renada.bonham@us.af.mil))
- Traci Messick ([traci.messick@us.af.mil](mailto:traci.messick@us.af.mil))

Please ensure data is in a readable electronic format that can be received through a firewall. Attachments shall not to exceed 10 MB per email. Multiple emails are acceptable.

Questions relative to this market research should be addressed to Randy Miller, (478) 926-5871.

## **Part II. Capability Survey Questions**

### **Programmatic Questions**

1. Describe your company's past experience on projects similar in complexity to this requirement. Include contract numbers, a brief description of the work performed, period of performance, total dollar value, agency/organization supported, and individual point of contact (Contracting Officer or Program Manager).
2. What is the extent and nature of the work you would anticipate your company would subcontract?
3. Based on the complexity of the requirements described and the projected risks associated with satisfying these requirements, what is your company's preferred contract type and pricing arrangement?
4. Do you have established catalog or market prices for services similar to those necessary to satisfy requirements? If you offer these type services to both U.S. Government and commercial customers, is the same workforce used for both the U.S. Government and general public? Are services offered to both under similar terms and conditions? Briefly describe any differences.
5. The NETCENTS 2 contract vehicle is an option we are considering for this effort. Are there any limitations to services provided, level of support, or data processing that would hinder the accomplishment of the PDS requirement?
6. Historically, the PDS requirement has been accomplished under North American Industry Classification System (NAICS) code 518210 - Data Processing, Hosting, and Related Services. Based on your understanding of the PDS requirement, have you ever performed this type of work, similar scope and complexity, under any other NAICS? If so, please identify which code(s)?

### **Technical Questions**

1. Describe your company's experience in the implementation, management, use and administration of multiple domain enterprise information systems with physical and virtual systems running various operating systems, and implementation, management, and administration of storage area networks and virtual storage platforms.
2. Describe your company's experience in meeting the requirements of Office of Management and Budget (OMB) Memorandum M-16-19, The Data Center Optimization Initiative (formally known as the Federal Data Center Consolidation Initiative – FDCCi). Include experience associated with implementation of/compliance with the Air Force's Common Computing Environment.
3. Describe your company's experience in implementation, management, and administration of enterprise backup solutions. Include in your response your approach to developing,

maintaining and executing a disaster recovery plan for large, complex enterprise information systems, and in developing requirements, implementing solutions and executing processes necessary to support remote system/data contingency sites.

4. Describe your company's experience in efforts to design and implement system solutions to achieve near uninterrupted system/data availability.
5. Describe your company's capabilities in implementation, customization, volume data load and sustainment of commercial-off-the-shelf (COTS) Product Lifecycle Management (PLM) technology solutions. Include in your response any Siemens Teamcenter Unified Architecture (TcUA) specific experience, to include experience with Extract, Transform and Load (ETL) processes in transitioning capabilities and data sets from legacy systems to a PLM environment and from one PLM environment to another. Also include scope of effort with regard to number of objects, databases, and users, and development and implementation of archival processes/capabilities, and actions taken to mitigate/minimize impact of data availability to users.
6. Describe your experience both challenges and successes with COTS Computer Aided Design (CAD) software tools, mechanical COTS CAD tools such as Siemens NX, PTC Creo, Dassault Catia, Dassault Solidworks, Autodesk Inventor, and Autodesk AutoCAD and electronic COTS CAD tools such as Siemens Mentor Graphics, Cadence Allegro, and Altium Designer.
7. Describe your experience with the development, maintenance, configuration management, and use of batch loader applications.
8. Describe your approach and experience in management and execution of software development and configuration management, and in sustainment of technical data applications. Include in your response tools utilized in application development and experience in implementation and support of web server software and Public Key Infrastructure.
9. Describe your company's experience in software development project planning, work breakdown structures, resource allocation, schedule tracking, risk analysis, regression testing, and cost management. Also include experience associated with JIRA and Apache Subversion, or similar tools.
10. Describe your experience in development and sustainment of web-based applications designed to provide single point of access to multiple, disparate data systems. Include in your response a general description of system interface development and your ability to maintain access to both government and commercially owned repositories via a single application. Include in your response any experience with commercial repositories owned and operated by Information Handling Services (IHS), such as Standards Expert, Haystack, CatalogXpress, and 4DOnline Parts Universe.

11. Describe your level of training and experience in development, administration, and tuning of Oracle and SQL server databases. Include experience associated with implementation of stand-by databases and recovery/restoration of large Oracle database instances.
12. Describe your company's capabilities in generating, handling, processing and storing classified material and data, to include implementation, management and administration of classified systems necessary for conversion, configuration management, retrieval and distribution and archiving of electronic classified data.
13. Describe your company's experience with meeting the requirements of DoD Instruction 8500.01 – Cybersecurity, DoD Instruction 8510.01 – Risk Management (RMF) for DoD Information Technology (IT), DoD Manual 8570.01 – Information Assurance Workforce Improvement Program, and Defense Federal Acquisition Regulations (DFARS) 252.204-7008 – Compliance with Safeguarding Covered Defense Information Controls and 252.204-7012 – Safeguarding Covered Defense Information and Cyber Incident Reporting. Include experience with attaining and maintaining IT system accreditation through the Air Force's Authorization Official using the Enterprise Mission Assurance Support System (eMASS) and the Continuous Monitoring and Risk Scoring (CMRS) system. Include experience with testing/certification of Government (GOTS) and Commercial (COTS) software products for use on DoD networks.
14. Describe your experience in management and operation of a multi-tiered technical help desk environment, to include types and quantities of systems, applications, trouble calls, and users supported.
15. Describe your company's experience in DoD system portfolio management, NDAA OEP compliance and certification and accreditation processes. Include in your response experience in utilizing the Information Technology Investment Portfolio System (ITIPS) (formally known as EITDR – Enterprise Information Technology Data Repository), Architecture Compliance and Requirements Traceability (ACART) and eMass toolsets.
16. Describe your level of knowledge and experience in creating, editing, and managing Standardized Generalized Markup Language (SGML), eXtensible Markup Language (XML), S1000D-compliant, and desktop publishing source data. Include any experience associated with design, development, management, use and sustainment of style libraries, business rules and volume publishing engines to produce military specification compliant and interactive content output.
17. Describe your experience with specifications governing military technical orders. Include subject matter expertise associated with review/analysis of Technical Manual Specifications and Standards (TMSS) Digital Support Suites (DSS), Air Force Technical Order Authoring and Publishing IAW MIL-STDs, Specifications and Document Type Definitions (DTDs) and experience in developing new and implementing changes within style bundles/libraries as necessitated by specification changes.

18. Describe your experience with structured data bursting and parsing processes, and with content management systems using project-related workflows. Include experience associated with development of decision tree/business case analysis toolkit(s) for assessment and categorization of structured data.
19. Describe your experience with complex data publishing environments which enforce compliance with governing specifications. Describe your experience with legacy system consolidation.
20. What experience have you had in the design, implementation and execution of volume data extraction, conversion, quality assurance and mass data load/indexing processes? Include any experience, both challenges and successes with product data profiling and cleansing processes for loading product data into the COTS PLM software, Siemens TcUA.
21. Describe your experience with automated conversion of Portable Document Format (PDF) files to Adobe FrameMaker®, SGML and XML formats.
22. Describe your experience with the creation, sustainment, conversion, and configuration management of parts indenture data, Bill of Material (BOM) data, and/or product structure data in a Product Data Management (PDM)/Product Lifecycle Management (PLM) environment. Include experience with Siemens Teamcenter software modules, such as Bill of Materials Management, Engineering Process Management, Maintenance, Repair and Overhaul (MRO), and Reporting and Analytics.
23. What experience have you had with implementation of toolsets and processes designed to utilize multiple electronic data sources and business rules to analyze data elements, identify data anomalies, and verify or enhance the accuracy/integrity of product data, to include part indenture data structures and bill of material data. Include in your response knowledge level of, and experience working with, data structure and data within the D200F, D043, G005M, et al logistics data systems.
24. Describe your experience in developing and executing automated or semi-automated processes designed to discover/map relationships between various types of legacy product data, and in creating and maintaining data relationship linking within a PLM system. Include experience you may have in discovery of relationships between part number and stock number, part number and drawing number, and part number and technical order. Also include information quantifying the systems utilized and the volume(s) of data analyzed during discovery processes.
25. Describe your level of knowledge and experience in the development and execution of production processes and continuous process improvement initiatives.
26. Describe your experience implementing, maintaining and executing software and data quality assurance programs. Include in your response approaches and standards utilized to measure achievement of established functionality requirements and quality standards.

27. Describe your experience developing and providing user training for government and contractor employees covering general system functionality and operation, in-depth functional training based on specific user roles/responsibilities, and data maintenance operation.
28. Describe your experience in management of configuration control board processes for Government information systems. Include in your response description of various disciplines included in processes, and of the tools utilized to facilitate those processes.