

TECHNICAL INSTRUCTION (TI) - DRAFT

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| Issue Date of TI | 13 October 2009 |
| TI No. | TI-4523-08 |
| Contract No. | N00178-05-D-4523 |
| Task Order No. | FC01 |
| Government Agency | Naval Surface Warfare Center, Crane Division |
| Vendor | Referentia Systems, Inc. |
| Vendor POC | Bob Nakata, Office: (808) 423-1900 ext 808; cell: (408) 813-8822 bnakata@referentia.com |
| Task Description | <p>The contractor shall furnish all labor, material, and facilities necessary to accomplish the tasks described in this SOW. The Government shall provide any GFE/GFI that is identified during the requirements gathering phases of the work described herein including government data relevant to the task. Where necessary, the contractor shall attend conferences to maintain awareness of the-state-of-the-art in technology.</p> <p><u>Program Management</u> The contractor shall provide the plans and program management necessary to accomplish the tasks described in this SOW. The contractor shall plan, coordinate and manage programmatic review, prepare all necessary documentation and support scheduled and requested document reviews as defined in the CDRLs list. Where necessary, the contractor shall attend conferences to maintain awareness of the state-of-the-art in technology.</p> <p><u>Rapid Exploration of Life-Cycle Data Management and Analysis</u> The contractor will work with relevant organizations including ONR, NAVAIR, NAVSEA, Air Force and SPAWAR SC Pacific to gather integrated health management and other related life-cycle data management requirements for unmanned systems and Navy and Air Force aircraft. A prototype net-centric data management and Decision Support System (DSS) for rapid exploration will be designed and prototyped to meet requirements by quantitatively analyzing large numbers of data parameters in a short amount of time. The contractor will explore the use of the DSS and health management information in providing rapid turnaround analysis capabilities and in offering a data source for other systems including lessons learned databases and sensor mission planning systems. The contractor will actively seek transition opportunities for the data management and DSS capabilities.</p> <p>The government will gather, collect and provide approvals for any data required for this effort.</p> |

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| | <p>Task Deliverable:</p> <p>a) The contractor shall deliver a report including the collected requirements, prototype software design specifications, potential uses of the DSS as a data source, and transition opportunities. The contractor shall deliver an executable copy of the prototype software and demonstrate the data management and DSS concept.</p> <p><u>NetCentric Network and Data Architecture Design</u></p> <p>The contractor will work with relevant organizations including ONR, NAVAIR, NAVSEA, and SPAWAR SC Pacific to gather network and data architecture requirements to provide NetCentric support of distributed asset health management data gathering, storage and analysis. This includes cross-domain requirements and the assessment of ACE or CIT application in the architecture design. If feasible, a prototype architecture will be developed to demonstrate the potential of the architecture or portions of the architecture.</p> <p>Task Deliverable:</p> <p>a) The contractor shall deliver a preliminary NetCentric Network and Data architecture design document.</p> <p><u>Corrosion and Life Cycle Requirements Analysis</u></p> <p>The contractor will work with relevant organizations including ONR, NAVAIR, NAVSEA, and SPAWAR SC Pacific and potentially Hawaii military bases to gather corrosion and related life-cycle requirements for unmanned systems and Navy and Air Force aircraft. Potential new technologies and operational concepts will be researched and evaluated to meet these requirements as well as transition potential. Potential relationships between aircraft and facilities corrosion data and mitigation efforts will be evaluated with potential technologies and operational concepts such as using aircraft corrosion data to drive facilities corrosion mitigation efforts. If feasible, test scenario(s) may be evaluated during this effort.</p> <p>Task Deliverable:</p> <p>The contractor shall deliver a report including collected requirements, evaluation results, and suggested solutions.</p> |
| GFI, GFE, GFM | <p>The government will supply as necessary access to necessary required aircraft health, maintenance records and performance data, UxS, relevant data sources, and UxS C2 systems to complete the requirements of this SOW. The government will supply GFE/GFI that is identified during the requirements gathering phases of the work described herein.</p> |
| Duty Location | <p>The contractor shall perform the requirements of this SOW at the contractor's facilities.</p> |

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| Temporary Duty Location (travel) | N/A |
| SLIN No. | 100007 (Year 1) 300007 (Year 1) |
| Performance Period | The anticipated period of performance of this SOW shall be from the start of the contract through 18 months. |
| Data Deliverable | The Contractor shall prepare documentation and management plans in accordance with the Contract Data Requirements List. |
| Requiring Technical Activity (RTA) | Robin Laird (619) 553-3667 robin.laird@navy.mil Mike Bruch, (619) 553-7977 mike.bruch@spawar.navy.mil Jim Epple, (812) 854-2308 James.epple@navy.mil |
| Task Order Manager (TOM) | Denise Anderson, (812) 854-5176 Denise.anderson@navy.mil |

Contingent Upon Task Order Modification Issuance to Increase Funding
 Funding is currently available on the Task Order.