

## TECHNICAL INSTRUCTION (TI)

<b>Issue Date of TI</b>	April 10, 2007
<b>Revision Date of TI</b>	December 21, 2007
<b>TI No.</b>	TI-4523-002 revision 2 (Revised tasking to cancel ACE/COSMOS Demonstration and Authenticator development. Modified Spiral 1 Deployment to complete all work up to and including issuance of CDS and DITSCAP IATCs. Added requirement for a demonstration associated with the MLTC system at USPACOM.)
<b>Contract No.</b>	N00178-05-D-4523
<b>Task Order No.</b>	FC01
<b>Government Agency</b>	Naval Surface Warfare Center, Crane Division
<b>Vendor</b>	Referentia Systems, Inc.
<b>Vendor POC</b>	Jim Fordice, ofc: (505)345-1641, cp: (505)730-8497, jfordice@referentia.com
<b>Task Description</b>	<p>The contractor shall develop a Program Management Plan (CDRL A002) that will include at a minimum: Summary of the overall technical approach and tasks that will be performed throughout the project, Plan of Action and Milestones (POAM) (CDRL F001). Contractor shall conduct Program Reviews (CDRL A006); provide a Work Breakdown Structure (CDRL B002); submit Monthly Status Reports (CDRL A001). Contractor shall submit financial reports (CDRL B001), and conduct In-progress technical reviews (CDRLs A003, A004, A005). Contractor shall submit Meeting Minutes/Trip Report (CDRL A005). Contractor shall submit a Final Technical Report (CDRL F002). The contractor shall provide and OPSEC Plan (F003). (Section 3.1 of Task Order N00178-05-D-4523)</p> <p>The contractor shall work with the USPACOM Technical Point of Contact (TPOC) and other government agencies, as designated by the TPOC, to deploy Spiral 1 of ACE. This deployment shall consist of an upgrade of C3F's current NetTop environment (currently 13 seats and one administrative station) that will provide access to SIPRNET, CENTRIXS-4Eyes, CENTRIXS-GCTF CMFP VPN, and CENTRIXS-JPN. Tasking for the deployment shall include planning, engineering, integration, configuration, accreditation support (up to preparations for completion of CDS Phase 2 (Issuance of IATC) and preparations for completion of DITSCAP Phase 2 (issuance of IATC)), management activities and coordination, installation</p>

planning, and training planning. The government will provide a site technical point of contact, and the contractor shall integrate the NSA provided ACE Spiral 1 client configuration with the deployment site legacy network. The contractor shall build the system to be deployed in the Pacific TPIAS (Trusted Personnel Identification and Authentication Service) Integration Center (PTIC), test it to ensure it meets appropriate security and technical requirements through completion of a CT&E. The contractor shall coordinate and support certification and accreditation submissions as required for the installation. The contractor shall submit a fielding plan that includes an installation plan, a maintenance support plan, a training plan, a functional testing plan, and a de-installation or equipment handover plan. The contractor will perform a function test of the installed system to validate that the ACE installation meets C3F operational requirements. (Section 3.2.1, 3.2.2, 3.2.5 of Task Order N00178-05-D-4523)

The contractor shall provide support to PACOM for an upgrade of the existing MLTC-based system to a High Assurance Platform (HAP) based system. The contractor shall coordinate and support completion of the Phase 1 submissions and preparation for Phase 2 testing for the Cross Domain System (CDS) and DITSCAP/DIACAP certification and accreditation processes. The contractor will attain familiarity with HAP 1.0, install HAP workstations in the PTIC, and prepare a draft installation plan. (Section 3.2.1, 3.2.2, 3.2.5 of Task Order N00178-05-D-4523)

The contractor shall provide a PTIC that includes a test, integration and demonstration room and server facilities for development and demonstration of ACE, TPIAS and related capabilities. The PTIC shall be available for demonstrations or tours as requested and scheduled by the USPACOM TPOC. The USPACOM TPOC shall provide one day's notice prior to any requested tours/demos. The minimum required shall be one per month. The PTIC shall include representative ACE enclaves and user terminals. The contractor shall be responsible for configuration control of the PTIC under the direction of the USPACOM TPOC.

The PTIC shall serve as an Integration Lab for the integration of National Security Agency (NSA) developed ACE and TPIAS spirals. The PTIC configuration shall be synchronized with NSA's development efforts. As required, the contractor shall work with USPACOM and NSA to connect the PTIC with the NSA development lab, or other labs as necessary, via the Internet for

testing and other development actions. The government will provide necessary information to support this effort. The Integration Lab environment shall provide realistic simulation of real world network traffic, serve as a test bed for preparing the deployment packages, serve as a test bed for patch update testing and bug fixes, and allow for practical evaluation of current ACE/TPIAS capabilities and newly introduced technologies. The integration lab shall support a minimum of three enclaves and four user seats for integration and test purposes. Complimentary and related coalition information sharing capabilities and technologies may also be housed and demonstrated in the PTIC, as required and designated by the USPACOM TPOC.

The contractor shall build a portable demonstration capability for remote site demonstrations. The contractor shall be responsible for all aspects of shipping, setup, and breakdown of the equipment at the demonstration sites. The contractor shall work with the USPACOM TPOC to develop the briefing and demonstration multimedia materials for each demonstration. USPACOM will provide at least one government person to coordinate with the demonstration sites. The portable demonstration suite may serve as an additional test and evaluation platform, and may be stationed at the vendor's facility in the Continental United States (CONUS) for rapid mobility to CONUS sites. (Section 3.2.1, 3.2.2, 3.2.5 of Task Order N00178-05-D-4523)

The contractor shall develop an intra-domain Single Sign On (SSO) capability. The intra-domain SSO capability shall be designed to work with, and complement the NSA provided TPIAS capability being developed for ACE. The contractor will conduct a turnover of TPIAS Spiral 1 with NSA. The contractor shall submit a Final Technical Report (CDRL F002). (Section 3.2.2 of Task Order N00178-05-D-4523)

In support of the ACE concept, the contractor shall conduct a study of the available commercial solutions for construction of an architecture that shall provide a data center-based Virtual Desktop Infrastructure (VDI). The VDI should provide a complete range of application support including the ability to access streaming video and participate in desktop Video Tele-Conferencing (VTC). The VDI shall provide for storage of user data and allow for remote access by the user with minimal or no local data storage. Additionally, the contractor shall conduct a study of the available commercial solutions that provide for server virtualization with the intent to develop a solution to reduce the number of physical servers required

to support existing or new data centers. The contractor shall submit a Final Technical Report (CDRL F002) that includes a design proposal that integrates the results of the study into the ACE concept. (Section 3.2.1 of Task Order N00178-05-D-4523)

The contractor shall develop solutions that shall integrate existing and developing cross domain solutions into the ACE architecture in accordance with the USPACOM TPOC. Solutions to be integrated include, but are not limited to, Cross Domain Collaborative Information Environment (CDCIE) and Coalition Secure Management and Operations System (COSMOS). The contractor shall provide Final Technical Report for each integration effort (CDRL F002). (Section 3.2.3 of Task Order N00178-05-D-4523)

The contractor shall conduct a study to compare current users requirements and with available or developing technologies as they relate to the ACE effort in order to discover or validate potential future ACE efforts. The contractor will report the results of findings in an updated ACE requirements appendix to the ACE Concept Paper and provide it as a Technical Report (F002). (Section 3.2.3 of Task Order N00178-05-D-4523)

The contractor shall deliver the necessary training materials associated with those products procured as part of this TI to ensure that the features and concepts of the system products and functions are clearly understood, used, and maintained appropriately. At a minimum, the contractor shall provide the materials necessary to support a system administrator's course and a user's course in both CD and paper copy media types for each deployment. The CD versions of training materials should support posting on a centralized server as a web based learning tool. (CDRL A009). (Section 3.5 of Task Order N00178-05-D-4523)

The contractor shall work with the TPOC to support USPACOM's participation in CWID-08. The contractor shall attend the CWID Planning Conferences to obtain the information needed to integrate ACE Spiral 2 into the CWID scenario. The contractor shall assemble and test the CWID demonstration equipment, ship the equipment to/from the CWID site, and setup the equipment at the site. The Contractor will assist government representatives in the operation of the equipment during CWID. The contractor will assist the TPOC in preparing any scenario documents or presentation materials. (Section 3.2.1, 3.2.2, 3.2.5 of Task Order N00178-05-D-4523)

<b>GFI, GFE, GFM</b>	Will be furnished on an as required basis.
<b>Duty Location</b>	Contractor Facility, Honolulu, HI and San Diego, CA
<b>Temporary Duty Location (travel)</b>	San Diego, Washington D.C., Germany, and other CONUS/OCONUS locations, as required.
<b>SLIN No.</b>	100001 (Year 1) 300001 (Year 1)
<b>Performance Period</b>	April 10, 2007 – September 30, 2008
<b>Data Deliverable</b>	The contractor shall provide the following deliverables for this TI: <ol style="list-style-type: none"> <li>1. Status Report A001 DI-MGMT-80368 Monthly</li> <li>2. Program Management Plan A002</li> <li>3. Conference Agenda A003 ASREQ</li> <li>4. Conference Presentation Materials A004 ASREQ</li> <li>5. Report (Record of Meeting/Minutes) A005 ASREQ</li> <li>6. Progress Report/Program Review A006 ASREQ</li> <li>7. Training Materials A009</li> <li>8. Funds and Man-hour Expenditure Report B001 Monthly</li> <li>9. Contract Work Breakdown Structure B002</li> <li>10. Plan of Action and Milestones (POAM) F001</li> <li>11. Technical Report /Final Report and demonstration F002</li> <li>12. OPSEC Plan F003</li> </ol>
<b>Requiring Technical Activity (RTA)</b>	Brant Ackerman, (808) 477-9552, brant.t.ackerman@navy.mil
<b>Task Order Manager (TOM)</b>	Brant Ackerman, (808) 477-9552, brant.t.ackerman@navy.mil