



**July 2007 NEWS** - SOLUTE awarded SeaPort-e Task Order in support of Carrier and Air Integration Program Office (PMW 750)

On July 24th, SOLUTE Consulting was awarded SeaPort-e Task Order N00178-05-D-4565-NS02, for PMW 750 Program Management Support Services. The potential value of this Task Order is 13.9m USD.

The Carrier and Air Integration Program Office, (PMW 750) is responsible for aligning platform integration and installation efforts with customers and stakeholders in an effort to deliver Netcentric Warfare capabilities to Aircraft Carriers, Command Ships, Large Deck Amphibious Ships and Aircraft. PMW 750 is also responsible for the Tactical Mobile (TacMobile) Program which provides fixed site and mobile Command, Control, Communication and Computer (C4I) warfighting capability to Navy Commanders and their subordinate commands. Solute currently provides TacMobile program support via our San Diego headquarters and Lexington Park office.

Objectives of this new Task Order include:

- Enabling Strike Group Dominance and Warfighting Readiness through integrated C4I installations onboard Aircraft Carriers (CVN/CV), Amphibious Assault Ships (LHD/LHA), and Command Ships
- Providing programmatic and technical services support in the oversight of the acquisition of integrated C4ISR solutions for the CVN 77
- Supporting the validation of C4ISR system installations on all applicable platforms and coordinating with the PEO C4I Program Offices and NAVSEA Test Teams
- Providing technology and management support for the Integration Program offices Future Ships Program. Future programs to be supported include CVN 21, Joint Strike Fighter (JSF) Autonomic Logistics Information System (ALIS), and LHA(R)/(F) preliminary design C4I systems engineering efforts
- Configuration management and C4 certification planning
- Facilitating the development and coordination of aircraft C4I and Airborne Networking Integration (ANI)
- Program Office management support

**PMW 750** is the Participating Acquisition Resource Manager (PARM) and the single Point of Contact (POC) within PEO C4I for coordinating the integrated design, procurement, installation, integration, and testing of C4I installs on New Construction and In-Service Aircraft Carriers, Command Ships, and Large Deck Amphibious Ships. PMW 750 also serves as the PEO C4I lead for Naval Aviation Enterprise. Responsibilities include monitoring the following: Financial execution; GFI delivery; GFE delivery; ILS product delivery; resolution of technical issues; risk analysis / risk mitigation; financial execution; and C4I design requirements. In addition, PMW-750 has the responsibility of ensuring that necessary funding is received through Ship Project Directives (SPDs) from SPMs to meet the required C4I installation requirements. PMW 750 serves as the principal POC within PEO C4I for coordination and delivery of integrated C4I products to SPMs and stakeholders; maintains visibility and oversight over system integration and test activities, and is the PEO C4I representative to PEO Integrated Warfare System (IWS), PEO Carriers, and PEO Ships for Future, New Construction, and In-Service ships planning, coordination and final delivery. This includes the support for installations, acquisitions, Technology Transition, and C4I Capabilities Improvement Plans (CCIP). Installation execution and planning for PEO C4I is organized under PMW-750 for Aircraft Carriers, Amphibious Assault Ships, and Command Ships. PMW 750 works closely with all PEO C4I Product PMWs to plan, coordinate, and execute integrated, interoperable C4I installations. The Airborne Networking and Integration (ANI) initiatives are being defined to consolidate efforts of Space and Naval Warfare Systems Command (SPAWAR), the Program

Executive Officer for Command, Control, Communications, Computers, and Intelligence (PEO C4I), the Naval Air Systems Command (NAVAIR), the Joint Tactical Radio System Joint Program Executive Office, and other US Air Force and US Army offices toward design and fielding an internet protocol (IP) based tactical network for Navy and Joint command and control, surveillance and tactical aircraft. The airborne network will have to interface with existing Tactical Digital Information Links (TADILs) via MIDS JTRS, Cooperative Engagement Capability, additional legacy Radio Frequency systems, and shipboard combat systems. The TacMobile Program provides evolutionary systems and ancillary equipment upgrades to support Unified, Fleet and Navy Component Commanders, the Maritime Sector, Theater and the Naval Liaison Element Commanders (Ashore) with the capability to plan, direct and control the tactical operations of Joint and Naval Expeditionary Forces and other assigned units within the area of responsibility. These operations include littoral, open ocean, and over land all sensor surveillance, anti-surface warfare, over the horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue and special operations.

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**February 2007 NEWS** - SOLUTE supports the NATO Maritime Air Industrial Support Team and the Naval Industrial Advisory Group Study Group

SOLUTE Senior Engineering Consultant, Mrs. Sunhi Garber, was invited to attend the recent NATO Maritime Capabilities Group 4 SubGroup 42 Maritime Air /Maritime Air Support Center Industrial Support Team conference in Mesnuls, France, 05-06 February. This group is abbreviated as MCG/4 SG/42 MA/MASC IST, henceforth called IST. The Chairman of the IST requested that our consultant brief the group on the Extensible Markup Language (XML) and provide an overview of the current implementation of this metadata language within the U.S. DoD. The IST is considering recommending the inclusion of XML within the upcoming STANAG 4283 Edition 6.

IST members are industry volunteers who currently hail from six of the 26 total NATO countries: France, Germany, Italy, Spain, the United States, and the United Kingdom; these six countries being concerned with the interoperability of NATO maritime patrol forces. The IST is three levels down from the NATO Naval Armaments Group, and supports NATO Sub Group 42 (SG 42), which is responsible for determining the formats and specifications that ensure interoperability for international MPRA and maritime air operations centers. SG 42 develops and manages the following:

- STANAG 4283, which defines logical and physical interfaces between maritime patrol aircraft (MPA) and ground maritime air support centers (MASC)
- MASC/MPA Interoperability Reference Manual (MMIRM), which defines existing interfaces on each nation's MPA and ground support centers.
- Maritime Air Support Center (MASC) Specification
- Maritime Multi-Mission Aircraft Support Centre (MMSC) CONOPS and Specification

Mrs. Garber participated in IST discussions on the status of the Maritime Multi-Mission Aircraft Support Centre (MMSC) project, reviewed inputs collected for the MMIRM, and assisted in planning for STANAG 4283 Edition 6 (currently on Edition 5). This included discussions of map libraries, sensor libraries, data link, and XML.

While in France, SOLUTE was also invited to attend the Naval Industrial Advisory Group (NIAG) Study Group meeting, 07-09 February, sponsored by NNAG Naval Group 4, recently designated Maritime Capability Group 4 (MCG 4), Sub Group 42. STANAG 4283 is not currently supported by an official NATO evaluation process for declaring a NATO country's maritime aircraft system "STANAG 4283 compliant". This has led to some interoperability issues for NATO forces. The Study Group's task is to create a STANAG 4283 compliancy test process to recommend to Sub Group 42 (SG 42). Mrs. Garber proposed and created on-site Unified Modeling Language Activity Diagrams for this test process, to be included in the final Study Group's recommendation to SG 42.

According to Mrs. Garber, "it was a tremendous experience to meet and work with so many dedicated professionals who volunteer their expertise for the security of the NATO countries." "The hospitality of the host, Thales Airborne Systems, was superb. I believe NATO Maritime Air interoperability will benefit greatly from the inclusion of an XML metadata strategy within STANAG 4283, particularly when supported by a formal test process to certify overall compliance."