

OMG SPAWAR Information Day
Meeting the Future Critical Information Needs
San Diego, CA

Wednesday March 28, 2007

Open Standards Development and Compliance in the Navy

- 0900 – 0930 ***Welcome and Introduction***
Randy Mactal
Deputy Program Manager, Space and Naval Warfare Systems Command
- 0930 – 1030 ***SSC SD Technical Vision - Intelligent Composeability***
Lee Zimmerman
- 1030 – 1045 Refreshment Break
- 1045 – 1115 ***Net Centric Standards***
Mike Stewart
SPAWAR Standards Executive, Space and Naval Warfare Systems Command

Some of the fundamental principles for operating in a net centric environment are interconnectivity, interoperability, information sharing, and information assurance across all major domains (sea, undersea, air, space, ashore) and is the foundation for interoperability with the other service branches. Net-Centric Operations/NCW – allow the use of computers and communications to link people through information flow that depend on the interoperability of systems to enable an agile war fighting-centric organization characterized by distributed command and control (C2) and network enabled operations. Using a Service Oriented Architecture (SOA) approach, which is fundamentally about sharing and reuse of functionality across diverse applications. Service-oriented design focuses on composeability, the ability of computing platform independent publish/subscribe services that connect service providers with service users and are seamless, ubiquitous, and discoverable. Or in other words, create a net centric environment that is supported by the standards that describe the architecture and the systems required to achieve interconnectivity, interoperability, information sharing, and information assurance. The standards required by the Navy need to be defined, supported, coordinated and approved.

- 1115 – 1200 ***Keynote Presentation***
Gregory S. Black
General Manager & Mission Center Executive, Expeditionary Warfare Center, Raytheon

It has been said that knowledge (information) is power, however, it is the distribution and consumption of information that creates value in the market place. Standards based communications provides savings in the world of complex system integration. At the same time there are lingering perceptions that Standards can reduce competitive advantage. The shift to open architectures is fully underway in the Government and Defense market and resistance to the change is diminishing rapidly. As a leader in the area of Defense based system integration, Raytheon views the new OMG based Data Distribution Standard (DDS) as one of the key solutions providing us a pathway to solving complex communications problems. As we bring Open Architecture solutions to the market place, the publish/subscribe paradigm gives us a powerful tool to develop and merge component-based products in a rapid and efficient manner.

- 1200 – 1400 Lunch and OMG Technical Meeting Plenary

1400 – 1500 ***Compliance Tools in the Navy - FITS and NESI***
Randy Mactal, Deputy Program Manager
Lynne Spruill, Systems Engineer- PEO C4I & Space
Space and Naval Warfare Systems Command

1500 – 1515 Refreshment Break

Tutorials

1515 – 1600 ***Service Oriented Architecture (SOA)***
Mr. James J. Odell, Senior Research Scientist, IAI and Kabira
Mr. Harsh Sharma, Senior Information Architect, MetLife
Co-Chairs – OMG SOA ABSIG

1600 – 1700 ***Model Driven Architecture (MDA)***
Dr. Jon M. Siegel, Vice President-Technology Transfer, Object Management Group

1700 – 1800 ***Data Distribution Service (DDS)***
Dr. Gerardo Pardo-Castellote, CTO, Real-Time Innovations, Inc.
Co-chair – OMG Data Distribution Service PSIG