



George Mason University - AFCEA Educational Foundation - Federal SOA Institute

## WORKSHOP on 'DoD Use of SOA'

January 9<sup>th</sup>, 2008      9:00 AM – 3:45 PM  
Dewberry Hall, Johnson Center, Fairfax campus  
George Mason University

**Registration:** Registration is open at: <http://www-914.ibm.com/events/federal>  
**Workshop Cost**      No charge for the workshop, but you must register

### Program

**8:15 – 9:00**      **Registration and Coffee**

**9:00 – 9:15**      **Introduction and Welcoming Remarks**

**Ariela Sofer**, Chair, Systems Engineering and OR Dept., George Mason University  
**Fred Rainbow**, Executive Director, AFCEA Educational Foundation  
**Frank Stein**, Program Director, Federal SOA Institute  
**Alexander H. Levis**, System Architectures Lab, George Mason University

**9:15 – 9:45**      **The Role of SOA in Enterprise Architecting**

Contemporary organizations depend on effective integration of a number of systems in order to be able to quickly adapt and respond to changes of all types. A Service Oriented Architecture (SOA) is an architectural style that supports enterprise services as a fundamental need for obtaining enterprise solutions. An appropriate SOA supports better alignment between all enterprise components, including information technology, that will create flexible and responsive infrastructures to enable complete system and enterprise based interoperability and integration.

**Andrew P. Sage** became, in 1984, the first Dean of the School of Information Technology and Engineering at GMU and was elected Founding Dean Emeritus in 1996. He is an elected Fellow of IEEE, AAAS, and INCOSE. He has received many awards for his efforts and was elected to the National Academy of Engineering in 2004 for contributions to systems engineering and systems management.

**9:45 – 10:45**      **SOA for DoD**

This talk will explore the fundamental concepts of SOA, approaches to SOA, and the evolution from "swivel-chair integration" to full SOA based integrated solutions. It will include a discussion of IBM's "SOA Reference Model" and IBM's SOA Solution Stack. The talk will also include a discussion of how technologies and methodologies including Portal, Enterprise Service Bus (ESB), Business Process Management, SOA Entry Points, Information Management, IT Service Management, and Governance can be applied to SOA.

**Paul Giangarra** is currently a Distinguished Engineer and e-Government Solutions Architect in the Strategic Technical Relations team, working in the office of the CTO of IBM Software Group Federal. Much of the last five to six years have been spent working on large scale integration projects where SOA is a key methodology.

### **11:00 – 12:00 SOA Migration Plans for DoD**

Directives and policy papers from the office of the DoD Chief Information Officers are explicit in how the migration to SOA should take place. The primary responsibility for execution of a shared SOA infrastructure has now been placed on DISA. The current status of SOA policies will be discussed.

**Paul A. Strassmann** is the Distinguished Professor of Information Sciences at the Volgenau School of Information Technology and Engineering at George Mason University.

### **12:00 – 1:00 Lunch**

### **1:00 – 1:45 Implementing SOA in DoDAF 1.5**

The DoD Architecture Framework version 1.5 that was released in April 2007 enables the representation of Service Oriented Architectures as part of the systems view of the architecture. The challenges that this poses to architecture designers will be discussed and an example will illustrate the issues involved.

**Alexander H. Levis** is University Professor of Electrical, Computer and Systems Engineering at George Mason University where he heads the System Architectures Laboratory.

### **1:45 – 2:30 Modeling SOA with the UML Profile for DoDAF and MODAF (UPDM)**

UPDM is an international approved standard whose scope is the entire enterprise, focused specifically on modeling complex systems. This talk highlights the aspects of UPDM that provide derivation of SOA resulting in Operational and System services traceable to enterprise level strategic capabilities.

**Fred Mervine** is an Executive IT Architect, Federal CTO Strategic Technology Team. He is one of the principle authors of UPDM and is the Chair of the UPDM Finalization Task Force.

### **2:30 – 3:00 Case Study: Global Strike Pilot**

**Col Bryan K. Bartels, USSTRATCOM/JFCC-GSI/J32**

### **3:00 – 3:30 Federated SOA Challenges**

How can federation, at any level, effectively unite various intelligence capabilities for a given priority and still ensure common, consistent, and secure knowledge sharing among trusted agents? A framework for federation and the potential use of semantic agents to improve information sharing performance will be discussed.

**Larry Gloss** is a Navy veteran, career intelligence professional, and a Doctoral student at George Mason University.

### **3:30 – 3:45 Closing Remarks Alexander H. Levis**

**Directions and Parking:** You may find directions to the Fairfax Campus at

<http://www.gmu.edu/welcome/Directions-to-GMU.html>

and an interactive map of the Fairfax campus at

<http://coyote.gmu.edu/map/fairfax.html>