Demonstration Listing

The following companies will have demonstration tables on Tuesday from 1400 to 1900, and again on Wednesday from 1000-1600. There will be a cocktail reception hosted by Boeing, PrismTech, and Promia in the demo area from 1800 to 1900 on Tuesday immediately following the afternoon workshop sessions. In addition, some of the demonstrations will also set up during the Wednesday Workshop Reception from 1800-2000.

PrismTech will be demonstrating its Spectra software defined radio (SDR) product suite at the OMG’s Software Based Communications Workshop. Spectra was created by experienced SDR and Software Communications Architecture (SCA) developers who combined their expertise with advanced technology and superior COTS packaging to deliver the leading SCA-compliant SDR development and deployment environment available today from a single vendor. Spectra development tools employ a true SCA domain specific Model-Driven Development environment delivering waveform and platform modeling, complete SCA infrastructure code generation, and integrated build and target platform deployment capabilities. Most notably, with its robust reverse and forward engineering capabilities, Spectra tools can be used as an SCA compliance verification suite for pre-existing SCA waveforms and platforms as well as new waveform development. Development tool chain interoperability is facilitated through the packaging of Spectra tools as Eclipse Framework 'plug-ins' supporting seamless workflow with other Eclipse-integrated tooling. PrismTech's complete integrated and optimized SCA compliant Spectra Operating Environment (OE) delivers superior performance to existing multi-vendor OE solutions and boast the smallest platform footprint at under 1MB. Spectra supports open standards and platform independent modeling to deliver radio platform independence, supporting any mix of RTOS and GPP, DSP, and RTL (FPGA, ASIC) processor technologies. Spectra does not impose vendor lock-in, customers can choose a complete end-to-end Spectra solution or can use Spectra tools with 3rd party Standards-based COTS or proprietary SDR middleware, or incorporate the Spectra Operating Environment in existing SDR development programs.

Promia, an established development firm and software provider since 1991, is in the business of providing solutions that are designed to support highly secure, reliable, scalable and interoperable business applications. PROMIA's open-standard solutions comply with the newest emerging security regulations and specifications, providing high levels of information security assurance. PROMIA has targeted military, government, healthcare and financial institutions, developing sophisticated new intrusion detection tools that employ Artificial Intelligence techniques on high speed, high volume network systems.
L-3 Communications Corporation is a leading supplier of a broad range of products and services used in a substantial number of aerospace and defense platforms. We are also a major supplier of systems, subsystems and products on many platforms, including those for secure networked communications and communication products, mobile satellite communications, information security systems, shipboard communications, naval power systems, missiles and munitions, telemetry and instrumentation and airport security systems. We also are a prime system contractor for aircraft modernization and operations & maintenance (O&M), Command, Control & Communications (C3), Intelligence, Surveillance and Reconnaissance (ISR) collection systems and services, training and simulation, intelligence services and government support services. Our customers include the U.S. Department of Defense (DoD) and its prime contractors, the U.S. Department of Homeland Security (DHS), U.S. Government intelligence agencies, major aerospace and defense contractors, allied foreign government ministries of defense, commercial customers and certain other U.S. federal, state and local government agencies.

ARTiSAN Software Tools is the leading supplier of collaborative modeling tools for requirements analysis, specification, design and development of complex applications. The company provides standards-based, multi-user tool support from architectural frameworks through systems design to software implementation. ARTiSAN offers products, services and a process for systems and software modeling to accelerate the development of next-generation real-time systems while ensuring that they always meet requirements. ARTiSAN enables engineering teams to visualize, design and validate systems before building them, and simplifies implementation with code generation and software reuse. Winner of the 2005 SD Times 100 award in the Modeling category for bringing UML and SysML to real-time embedded systems, ARTiSAN offers the most advanced tools for complex applications development. Founded in March 1997, ARTiSAN is privately held with headquarters in Cheltenham, United Kingdom. The company has regional sales offices and distributors throughout the world including Leesburg, VA. For more information, call (703) 771-8008; or visit www.artisansw.com.

GrammaTech's CodeSonar is a code-analysis tool for finding serious bugs at compile time. It performs a path-sensitive, whole-program, interprocedural static analysis on C/C++ code and identifies flaws that are difficult to find using other means. These include buffer overruns, null-pointer dereferences, divides-by-zero, and many others. Users can use the simple API to add their own checks. CodeSonar is designed to be easy to incorporate into a software development process. It piggybacks on existing build systems, and no code annotations are necessary. It has a low false positive rate. Reports are generated in HTML for easy sharing with others. These show the path to the problem, and the conditions that must hold for it to be manifest.

International Systems Security Engineering Association. Society's ever-increasing reliance on information has made the protection of that information imperative. Many products, systems, and services are needed to maintain and protect information. As a result, the focus of systems security engineering has expanded from one primarily concerned with safeguarding classified government data to broader applications including financial transactions, contractual agreements, personal information and the Internet. Established in 1999, the ISSEA is a non-profit professional organization dedicated to the adoption of systems security engineering as a defined and measurable discipline.
A demonstration will be conducted showing the value of the Open Standard-based Software Assurance (SwA) Ecosystem. We will demonstrate how the Software Assurance Ecosystem can be leveraged by the community including Software Assurance tool vendors, software suppliers and consumers.

Unisys, KDM Analytics, MITRE, ThirdBrigade, and NIST have come together to demonstrate how to:
- Leverage the SwA Ecosystem CWE-enabled Test Case Generator to produce test snippets for evaluation/testing static analysis tools
- Leverage SwA Ecosystem integrated tools to reduce vulnerability risks and increase confidence in deployed application package creating WIN-WIN situations for both suppliers and consumers.

For more information:
Common Weakness Enumeration (CWE) - http://cwe.mitre.org
OMG SwA Special Interest Group - http://swa.omg.org

Objective Interface Systems is the worldwide leader in high-performance, real-time and embedded communications middleware solutions. The company provides Common Object Request Broker Architecture (CORBA®) ORBs, and secure communications middleware development tools based on the Multiple Independent Levels of Security (MILS) architecture to meet the high-performance requirements of military and aerospace, telecommunications, data communications, industrial automation and process control, transportation, robotics and consumer electronics markets.

ORBexpress®, a family of CORBA ORBs, is based on the Real-time CORBA standard that provides high-performance communications infrastructures to embedded and real-time developers, enabling real-time and embedded devices in heterogeneous environments to communicate seamlessly.

PCSexpress™ is high-assurance secure communications middleware that is integral to MILS (Multiple Independent Levels of Security), a foundational software architecture created to meet the gravest security threats to mission-critical systems.

Please stop by the Objective Interface Systems booth for more information.

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