Model-Based System of Systems Engineering with UPDM

Description: The Unified Profile for DoDAF and MODAF, (UPDM) initiative was started by members of INCOSE and the OMG. UPDM provides a consistent, standardized means to describe DoDAF and MODAF architectures in SysML/UML-based tools as well as a standard for interchange. UPDM is now a DoD mandated standard for DoDAF modeling using UML. The concepts found in the Systems Modeling Language (SysML) such as parametrics, blocks, complex ports, enhanced activity modeling, and cross-cutting constructs improve the state of the art for systems engineers and architects. The formal meta-model basis of UPDM also provides a basis for trade-off analysis, model execution, requirements traceability, and the transition to systems development and implementation. Finally, the interconnections between views can help combat stovepipe development and improve communication. This presentation looks at the current direction of UPDM, how it is improving the state of the art for system architects, and enables interchange of architectural information. We will also examine some of the latest concepts found in DoDAF 2.0 and how the UPDM Group is addressing these.

Matthew Hause is Atego’s Chief Consulting Engineer, the co-chair of the UPDM group and a member of the OMG SysML specification team. He has been developing multi-national complex systems for over 30 years. He started out working in the power systems industry for Houston Lighting and Power and Westinghouse Systems. He has and has been involved in military command and control systems, process control, communications, SCADA, distributed control, and many other areas of technical and real-time systems. His roles have varied from project manager to developer. His role at Atego includes mentoring, sales presentations, standards development and training courses. Mr. Hause has written a series of white papers on architectural modeling, project management, systems engineering, model-based engineering, human factors, safety critical systems development, virtual team management, systems development, and software development with UML, SysML and Architectural Frameworks such as DoDAF and MODAF. He has been a regular presenter at INCOSE, the IEEE, BCS, the IET, the OMG, DoD Enterprise Architecture and many other conferences. Matthew studied Electrical Engineering at the University of New Mexico and Computer Science at the University of Houston, Texas. In his spare time he is a church organist, choir director and composer.

Who: Matthew Hause
When: Thursday, 17 November @ 1130 to 1300
Where: L-3, Thomas Point Conf Rm, 3rd Floor Exploration Drive, Lexington Park, MD 20653
Bill of Fare: TBD
Cost: $8 Members, $10 Non-Members
Host: Barry Knouse

For reservations, please RSVP to:
Kelly Rogers at 301-863-3443
Rogers_kelly@bah.com
Or respond to this e-mail and thanks!!!
www.incose-somd.org