

Semantic Web Applications for National Security (SWANS = successor to SWMU)

February 8/9 2005



DAML PI Meeting
November 30, 2004

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Outline



- ◆ Objective of SWANS
- ◆ SWANS Agenda
 - Keynotes
 - Resources
 - Demo's
 - Tutorials
 - Pilot Program Consultation
 - Trade Show
- ◆ Invitees
 - Target Audience
 - Trade Show
- ◆ Relevance to PI's
- ◆ Schedule of Key Events



SWANS 05 Objectives



- ◆ SWANS Objective – Engage National Security technical managers and those who influence them (operational authorities, consultants and advisers) to initiate or invigorate pilot projects using OWL/RDF and Semantic Web tools
 - Enthuse with high-level influential keynote speakers
 - Describe technology innovations
 - Show successful projects
 - Provide opportunity to view broad range of technology innovations through Trade Show
 - Provide tutorials for more detail information transfer
 - Provide *Pilot Program Consultation* opportunity for one-on-one discussions with key Semantic Web authorities



Agenda Overview



February 8

- ◆ DARPA Kickoff
- ◆ Keynotes
 - Tim Berners-Lee
 - Jim Gilligan, USAF CIO
- ◆ Semantic Web Resources
- ◆ Luncheon Speaker
 - Jim Hendler
- ◆ Demo Intros
- ◆ Pilot Program Elements
 - Pilot Experience Panel
- ◆ Evening Demo's of National Security Early Adopters

February 9

- ◆ DARPA Introduction
 - ◆ Keynotes
 - Steve Cooper, DHS CIO
 - Gary Winkler, Principal Director, Enterprise Integration, US Army CIO
 - ◆ Business Use Case
- Remainder of Day,
3 Simultaneous Activities

Trade Show	Tutorials	Pilot Program Consultations
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SWANS 05 Target Audience



- ◆ Invitation List/Audience
 - Senior National Security (DOD/DHS/Intel Community) who are either in a role of influencing or managing technical innovation projects in information technologies
 - Last SWMU -100 attendees: ~50 Government employees, ~50 technical support
 - Expanded using selected individuals from CIO Council's Semantic Interoperability Community of Practice (SICoP) list
 - May have several hundred attendees
 - Broader than National Security interests, but with interest in Semantic Web use in Government applications



SWANS 05 Invitation List



- ◆ Sample Invitee Organizations include:
 - **Army:** Army Aviation Applied Technology Directorate, Army Center for Army Lessons Learned, Army G-3, Army Research Lab, Battle Command Battle Lab, CECOM
 - **Air Force:** ESC Hanscom, Air Force Communications Center, Scott AFB, AF Rome Lab, AF Studies and Analysis Agency, Air Force Doctrine Center, Air Mobility Command.
 - **Navy:** CNO, NAVAIR, Naval Air Warfare Center Aircraft Division, NAVEODTECHDIV, Naval Postgraduate School, Naval Research Laboratory, Naval Undersea Warfare Center, Naval Warfare Development Command, NAVNETWARCOM, NRL, Office Of Naval Research,
 - **Marine Corps:** Marine Corps Combat Dev Center, Marine Corps Intelligence Agency
 - **Joint:** DMSO/IMC, DIA, DISA, DTIC, DTRA, FBIS, Joint Warfare Analysis Center, Joint Staff J3/7/J9, JFCOM/Joint Experimentation, Joint Center for Lessons Learned, JWFC Doctrine Support, OASD (C3I)/KM, ROK-US Combined Forces Command, Korea, USCINCPAC, USTRANSCOM
 - **Other Government:** CIA , NGA, NSA, NASA, NSF, EPA, GSA, ...



SWANS Trade Show



- ◆ Process: Selection of candidates based two-page papers describing the proposed technology to be demonstrated
- ◆ Two types of Semantic Web capabilities sought.
 - COTS products that are mature
 - Fairly well developed research capabilities or systems that are mature enough to be expected to result in near term capabilities
- ◆ Proposals to be submitted by December 1, 2004 in order to be considered.
 - Only products using W3C OWL Web Ontology Language (as opposed to compatibility only with previous semantic language versions, such as DAML or DAML+OIL).
- ◆ Selections/Invitations to participate are expected to be made by December 12, 2004.
- ◆ Financial Responsibility: Participants will not be compensated for participation, i.e., it is a “pay as you go”
 - The Government will provide for space and access to the Web



- ◆ Invitees included Network Inference, Tucana Technologies, Unicorn, IntelliDimension, Stanford Medical Informatics, HP Labs, Sandpiper, Semaview, Ontoprise, Ontology Works, Semagix, Engenium, Semantic Research, Software AG, BT Exact, Mark Logic (formerly Cerisent)
- ◆ Others solicited in SWANS Heads Up invitation to DAML PI's 15 November

- ◆ Audience feedback
 - Potential problems RDF/OWL might tackle
 - SWANS will get back to questioner with a point of contact (Government or researcher, author's choice)
- ◆ Researcher feedback
 - Identification of transition targets
- ◆ Trade Show vendor feedback
 - Potential added pilot projects SWANS might assist in facilitating



Pilot Program Consultation



- ◆ Intended for Government individuals & selected tech support to meet with Semantic Web program management and experts for advice regarding potential pilot program development.
- ◆ Scheduled simultaneously with the Trade Show and the Tutorials on Day 2 (about 11 AM on).
- ◆ Consultation sessions limited to 20 minutes each.
- ◆ Sign up during on-line registration - first come, first serve.
- ◆ Only one session with a specific consultant per Government organization group. Three people or less per session.



Pilot Program Consultation “Consultants”



- ◆ “Consultant” roles - a range of capabilities. Summary resumes posted reflect expertise/relevant experience to guide those signing up
 - Management
 - Mark Greaves, DARPA
 - Rick Morris, Office of US Army CIO
 - Mike Daconta, Office of DHS CIO
 - Murray Burke, SET Associates
 - Pilot Program Technical Leadership
 - Ralph Hodgson, Top Quadrant
 - Joe Rockmore, Cyladian
 - Jim Hendler, University of Maryland
 - Semantic Web Resources
 - Mike Dean, BBN
 - Deborah McGuinness, Stanford University
 - David Martin, SRI

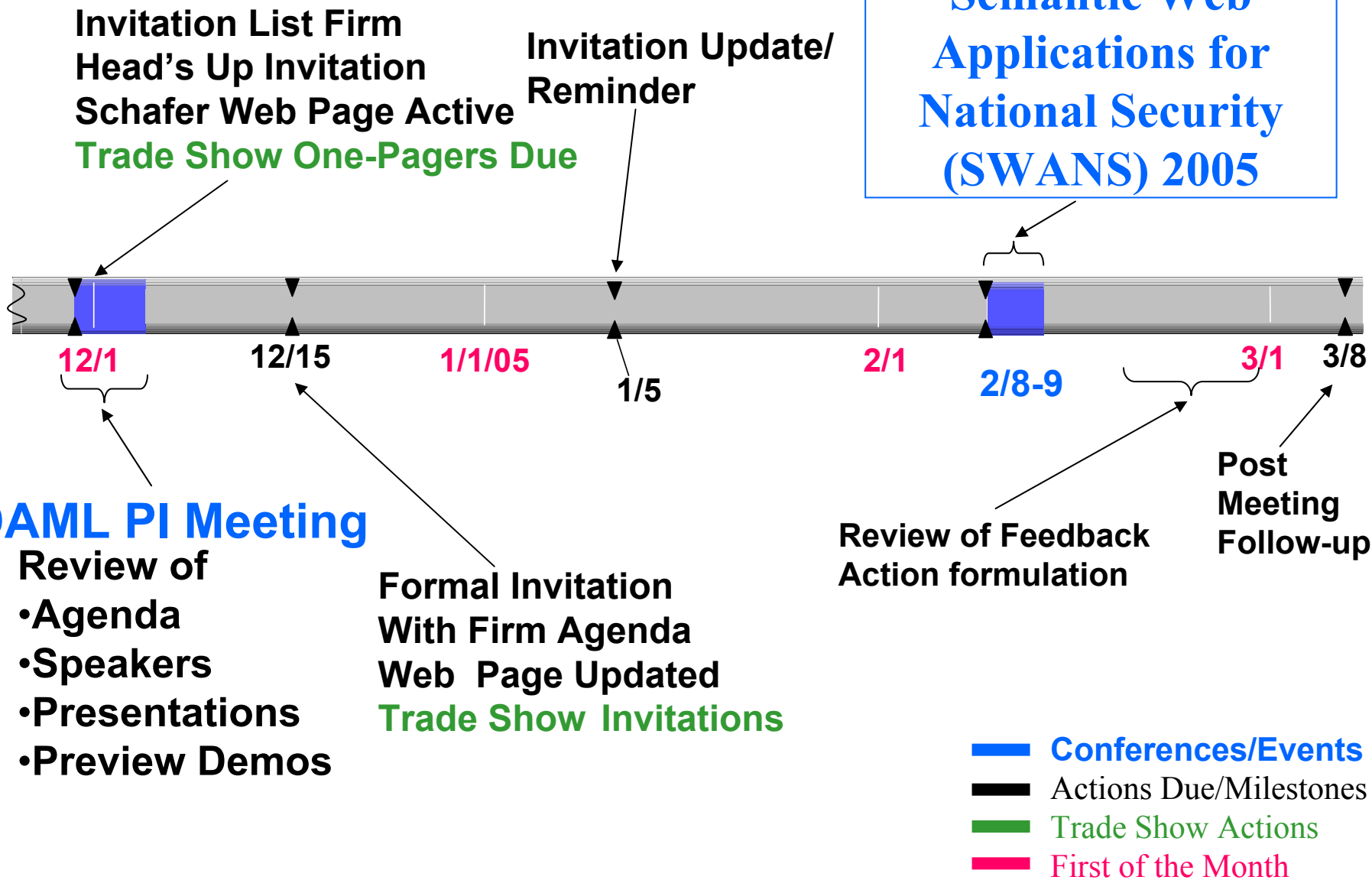


SWANS Relevance to PI's



- ◆ Key Demos (Government sponsored mature pilots)
 - Day One Demos, all National Security applications focus, most chosen/confirmed.
- ◆ Trade show as a venue for displaying pre-pilot research
 - Not primarily for research, intended to be product oriented.
 - Selected research and consulting organizations may be included if compelling.

Semantic Web Applications for National Security (SWANS) 2005





Points of Contact



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