

**THE FUTURE IS NOW:
NSA and DISA Emerging Technologies**
Tuesday, March 17, 2009
Detailed Agenda (V1)

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| 8:00 am – 8:45 am | Registration and networking |
| 8:45 am – 9:00 am | Welcoming Remarks Renee Winsky, President and Executive Director Maryland Technology Development Corporation (TEDCO) |
| 9:00 am – 9:15 am | Opening Remarks BGen Mike Hayes USMC (Ret.) Managing Director, Office of Military and Federal Affairs Maryland Department of Business and Economic Development |
| 9:15 am – 10:15 am | Keynote Address by NSA and DISA John Whiteford, Deputy Director for Business Capabilities NSA/CSS Technology Directorate Charles H. Brown, Deputy Director Research Directorate John Garing, CIO/Director Strategic Planning DISA Richard Williams, Principal Director GIG Enterprise Services Engineering |
| 10:15 am – 10:35 am | Networking, poster session, and exhibits |
| 10:35 am – 10:55 am | Success Stories Ultra-Thin and Flexible Circuits and Substrates: Reflections on the NSA-APL CRADA <i>Dr. Harry Charles, JHU/APL</i> This CRADA stemmed from joint research in the areas of microelectronics and packaging, and the focus was to produce high density, highly flexible microelectronics assemblies. CMIS Open Source Software <i>John M. Weathersby Jr., Executive Director Open Source Software Institute</i> DISA's Corporate Management Information System CRADA with the Open Source Software Institute makes available an integrated suite of approximately fifty human relations, security, training, acquisition, travel, and other Web based applications, all to Federal practice and process, plus hundreds of reports, tools, and other features. Developer training and research components are included. Both Open Source and Commercial licenses are offered. |
| 10:55 am – 11:05 am | TEDCO Funding Presentation |

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| | <p>James Poulos, III Vice President Technology Transfer and Commercialization TEDCO</p> |
| <p>11:05 am – 11:40 am</p> | <p>Technical Presentations I</p> <p>Method of Assessing the Security of Information Access System. <i>Adolf Cusmariu</i> Method to assess security of an information access system and quantify the security of the access.</p> <p>Personal Computing Device (Laptop Computer) Tamper Protection <i>David Lassen/Chuck Pribyl</i> A reusable container to detect if the integrity of a personal computing device has been compromised after a few unattended hours.</p> <p>CMIS Open Corporate Management Information System (oSCMIS) <i>Richard (Dick) Nelson</i> DISA's Corporate Management Information System CRADA with the Open Source Software Institute makes available an integrated suite of approximately fifty human relations, security, training, acquisition, travel, and other Web based applications, all to Federal practice and process, plus hundreds of reports, tools, and other features. Developer training and research components are included. Both Open Source and Commercial licenses are offered.</p> <p>Full Motion Video (FMV) <i>Bruce Bennett</i> DISA has been an active participant in the development of the Full Motion Video Architecture since 1998. With the exploding demand for Real-Time Full Motion Video by the deployment of Unmanned Aerial Sensors, Combat Cameras, and Fixed Closed Circuit Sensors, the need to disseminate the data across the battle space, has exceeded the original systems designed for this purpose. Several efforts are underway to implement an architecture that can provide real-time reach back, dissemination, store and forward, and exploitation of the Full Motion Video sources and feeds. The brief will provide the attendee with an understanding of the technology, Concepts of Operations, benefits, and operational impacts of the User-Centric, Full Motion Video Architecture.</p> |
| <p>11:40 am – 12:40 pm</p> | <p>Lunch, networking, poster sessions, and exhibits</p> |
| <p>12:40 pm – 1:15 pm</p> | <p>Technical Presentations II</p> <p>High Speed Voice Activity Detection <i>Dr. David Smith</i> Eliminates the need for manual search of audio data by automatically locating speech in audio data.</p> |

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| | <p>RENOIR: Understanding Data Using Visual Analytics <i>Michele Moore</i> General-purpose data visualization and analysis tool that enables analysts to create visual presentations to convey the meaning behind their data.</p> <p>Forge.mil <i>Rob Vietmeyer</i> Net-centricity for DoD IT. A collaborative environment that builds on commercial best practices to provide a cutting-edge environment for systems development and certification that is tailored to meet the unique demands of rapidly delivering dependable IT to DoD's Global Information Grid. We're creating a marketplace for the best practices, tools, software and services designed to speed the delivery of new and enhanced IT capabilities designed to meet the needs of our current warfighting environment. DoD needs to have dependable and trustworthy systems. The environment in which software is created directly contributes to its dependability and trustworthiness. Forge.mil provides such an environment in that it operates in full compliance with DoD IA requirements. Forge.mil, part of DISA, is joint by design, has been chartered by DoD to serve the extended enterprise, provides "best value" services, and has proven successes offering Defense-wide services. Forge.mil needs your help to maximize benefits for all Defense information consumers - share your information, identify your needs, provide your tools and services.</p> <p>WEB 2.0 <i>Tom Hazelwood (invited)</i> DISA's Web 2.0 activities in asynchronous communications and collaboration (Blogs, webcasts, RSS feeds, wiki's, etc).</p> |
| 1:15 pm – 1:45 pm | Networking, poster session, and exhibits |
| 1:45 pm – 2:15 pm | <p>Technical Presentations III</p> <p>TRICKLER:Network Security Monitoring Tool <i>Daniel Chen</i> Efficiently collects repetitive portions of network data, and leverages that data to identify network assets by analyzing and correlating that data, not using signatures.</p> <p>Method of Tamper Detection for Digital Device <i>Daryle Deloatch/Mark Haney</i> Scanning BlackBerrys to check for malicious attacks/unauthorized software modifications.</p> <p>Policy Based Enterprise Management (PBEM) <i>Dr. Prahba Kumar</i> Chief, Integration Engineering, DISA/GE21 Integration Engineering Division (GE21) in DISA demonstrated Policy Based Enterprise Management (PBEM) proof-of-concept in a lab environment in April 2008. Currently, work is in progress to build a prototype that will demonstrate the</p> |

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| | <p>application of PBEM in GIG NetOps. Specifically, this prototype will focus on the ability to configure Internet Switch Router (ISR) in response to changing threat conditions (INFOCON), network events or mission priorities in a dynamic, responsive and verifiable manner. This briefing and demonstration will summarize PBEM efforts in DISA with some use cases to show its applicability for managing network assets for GIG Network Defense (GND).</p> <p>Unified Communications and Collaboration (UC&C) <i>Dr. James Reilly</i> DISA has identified Unified Communications and Collaboration (UC&C) as its technology Vision for integrating the currently separate Real Time Service Voice and Video oIP, DISN Video Service (video teleconferencing) and NCES Collaboration Service. To this end, DISA Engineering will lead a tiger team to prepare DISA's UC&C Strategic Plan. We will brief DISA's UC&C vision for synchronous communications and collaboration. We will also discuss some asynchronous communications and collaboration efforts. Further, we plan to extend this vision to include UC&C-enabled DoD business and mission applications.</p> |
| 2:15 pm – 3:00 pm | Networking, poster session, and exhibits |

POSTER SESSION PARTICIPANTS

(Note: All technical presenters will participate in the Poster Session as well.)

| Poster Session | Description | NSA/DISA |
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| Integrated Waveform (IW) | <p>Integrated Waveform (IW) provides enhanced UHF SATCOM DAMA capabilities - improved efficiency and quality of communications. IW increases the number of accesses 240%, from five to 12 2400 BPS networks over a 25KHz channel.</p> <p>This translates to an increase of several hundred networks for tactical SATCOM users. Additionally, IW provides improved link margin, increased voice quality, and simplified set-up procedures.</p> | Dave Roberts |
| Digital Video Broadcasting – Return Channel Satellite (DVB-RCS) S2 | <p>DISA responded to the USCENTCOM Joint Urgent Operational Needs Statement (JUONS) (CC-0002 date 21 Jan 2005) by designing, integrating and Fielding a Digital Video Broadcasting – Return Channel Satellite (DVB-RCS) system for deployed users in SWA. The DVB-RCS is a commercial extension to the Digital Video Broadcasting – Satellite standard that was utilized in the design of Global</p> | Bruce Bennett |

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| | <p>Broadcasting Service. The by the operational users and OSD decision makers immediately recognized the advantages to the Warfighter that DVB-RCS offered. NII has established the policy that DVB-RCS was the preferred protocol for all IP traffic across all commercial leased and military owned Transponded satellites. Under OSD guidance, GBS has been funded to upgrade to this standard beginning in FY10. The Brief will provide the attendee with an understanding of the technology, benefits, and operational impacts of the two-way GBS capability.</p> | |
| <p>Method of selecting specific class data from multi-class data</p> | <p>This technology provides methods for automatically purifying a statistical model for a target data class, which has been trained from data representing both the target class and at least one other non-target class.</p> | <p>Dr. Daniel Richman</p> |
| <p>High Assurance Internet Protocol Encryptor (HAIPE)</p> | <p>Network encryption is a necessary tool to achieve IP Centricity. HAIPE is that standard as documented in the HAIPE Interoperability Specification (IS). A number of vendors have developed products that meet the current specification, 1.3.5. The next release of products will be built to HAIPE IS 3.0.</p> | <p>Gene Moy</p> |