
Monday October 23

UTP-M-A: COTS IS READY FOR WIDEBAND DATA LINKS AND SATCOM PROCESSING 

Wide bandwidth, flexible wireless data networks are required to implement Network Centric Warfare (NCW). Budgets continue to tighten, and the need for minimizing time from design to deployment in the field continues to intensify. Commercial off-the-shelf (COTS) digital processing equipment offers a cost- and time-effective solution for wideband data link and SATCOM terminal processing. This panel will address these issues with a number of experts from companies that provide products and services to the defense communications market. The panel will be moderated by an industry analyst.

8:00am — 9:30am **Omni Shoreham Hotel, Diplomat Ball Room** 

Panel Organizer: Ms. Leigh McLeod, Editorial & Speaker's Bureau Manager, Mercury Computer Systems

Panel Moderator: Mr. Greg Giaquinto, Senior Aerospace/Defense Analyst, Forecast International Incorporated

Panel Members:

Mr. Thomas Oliver, System Architect, Navy Phased Array Systems, Harris Government Communications Systems Division

Mr. Mike Kosmicki, Director of Business Development, Defense Wireless Communications, Mercury Computer Systems

Mr. Greg Shippen, System Architect Freescale Semiconductor, RapidIO Trade Association

Mr. Francis Bordeleau, Chief Executive Officer, Zeligsoft

UTP-M-B: MODELING AND SIMULATION 

This panel will focus on Modeling and Simulation Lessons Learned and suggest recommendations. A process called Missions and Means Framework (MMF) to represent and synthesize military operations (Purpose and Mission(s)) and the employment of material/forces (communications and sensor networks) to accomplish

these operations will be discussed by the panel. MMF can be used to quantitatively provide decomposition of all tasking and actions from Purpose/Mission to technical means and most important provide metrics that loop back to determine if the proper technical means was selected to meet Mission(s) and Purposes(s). This process enables the community to select proper communications (data, voice and video) network, sensor network models and simulations to address and represent various environments. The panel will also comment on the following topics when addressing MMF:

- Simulation Based acquisition (Lessons Learned and how MMF enhances the process)
- M & S in the Life Cycle Process
- Distributed Simulation (LIVE, virtual and software/Hardware Simulation)
- Verification, Validation and Accreditation
- Architecture to integrate and interoperate Models, Simulations, and Data Based including scalability
- Management considerations

The panel feels points listed above are crucial and the MMF process will have a significant impact as the DOD transforms itself from a forces-based, material-centric cold War posture to capabilities-based, network-centric, mission-centric – asymmetric-warfare posture, it is increasingly vital that military planners, operations, developers, testers and analysts concern themselves not only with doing things right (i.e., the technical architecture) but also with doing the right things (i.e., the operational architecture).

To address these complex objectives M & S must be steered by a framework that rigorously specify operational purposes and goals and then explicitly relate, map and allocate them to the proposed solutions (systems and subsystems on appropriate platforms) to accomplish Mission. From this the M & S community can be responsive.

9:45am — 11:15am Omni Shoreham Hotel, Palladian Ball Room 🇺🇸

Panel Organizer: Ms. Anna DeCarlo, Sr. Executive Assistant, Northrop Grumman Corporation

Panel Moderator: Mr. John Illgen, Vice-President and Director Modeling & Simulation, Northrop Grumman Corporation

Panel Members:

Dr. Paul Deitz, Director, U.S. Army Research Laboratory, Human Research & Engineering Directorate

Mr. Jack Sheehan, Chief Engineer, PM UA Combined Test Organization

CAPT Scot Miller, Commanding Officer, Navy Center for Tactical Systems Interoperability

Dr. Marty Stytz, Chief Principal Research Scientist and Engineer, Air Force Research Laboratory

UTP-M-C: MILSATCOM AS A KEY ENABLER OF WARFIGHTING TRANSFORMATION

DoD Military Satellite Communications are moving from an integrated system-of-system employing static, point-to-point communications to a network where information is dynamically routed in real-time. The construction of a net-centric information grid is an essential prerequisite for the DoD's sensor-to-shooter transformation. Secure, high-bandwidth satellite communication links are required. Tactical forces need IP-routed Communications On The Move. This panel will explore this new communications paradigm in detail.

Dr. Pravin Jain will chair the panel providing his insights and counsel. He will introduce the panelists and give an overview and his thoughts on the topic. Mr. Mike Kern (OASD/NII) will then talk about warfighter needs and the importance of Milsatcom to achieving information dominance. The net-centric Milsatcom vision and how the architecture will fulfill the warfighters' needs will be presented by Mr. Robert Tarleton of the NSSO. Brig. Gen. Pawlikowski, the Commander of the SMC MILSATCOM Systems Wing, will describe key features of the Milsatcom space systems providing details on the acquisition and development of key space and ground components. Finally, Mr. Rich Williams (DISA) will explain how these space systems will interconnect to the GIG and provide his perspectives on progress in achieving net-centricity. Dr. Jain will probably say a few words in summary and then lead a question and answer session.

3:30pm — 5:00pm **Omni Shoreham Hotel, Palladian Ball Room**

Panel Organizer: Mr. Eric Bradbury, Director Satcom Mission Integration, Northrop Grumman Corporation

Panel Moderator: Dr. Pravin Jain, Chief Scientist and Vice President, LinQuest Corporation

Panel Members:

Mr. Patrick M. Kern, Deputy to the ASD (NII) / DoD, CIO for Enterprise-Wide Systems Engineering

Mr. Robert Tarleton, Director COMM-FIO, National Security Space Office, Office of the Undersecretary of the Air Force

Brig. Gen. Ellen Pawlikowski, Commander, Military Satellite Communications Systems Wing, Space and Missile Systems Center

Mr. Rich Williams, Vice Principal Director, GIG Enterprise Services Engineering,
Defense Information Systems Agency

Tuesday October 24

UTP-T-A: C4ISR NETWORKING IN THE GLOBAL INFORMATION GRID

This panel will discuss different methods that are employed in order to access and govern GIG compatible networking that address unique service challenges, show examples of systems engineering activities that analyze and make recommendations for implementation, and also to examine how to achieve joint capabilities.

8:00am — 9:30am **Omni Shoreham Hotel, Diplomat Ball Room** 

Panel Organizer: Ms. Rosie Bauer, Executive Officer, Space and Terrestrial Directorate, CERDEC, RDECOM, US Army

Panel Moderator: Mr. Gary Blohm, Director, Space and Terrestrial Directorate, CERDEC, RDECOM

Panel Members:

Mr. Dave Mihelcic, CTO and Director, GIG Engineering, Defense Information Systems Agency

Mr. Neil Siegel, Vice President and CTO, Mission Systems Sector, Northrop Grumman Corporation

Ms. Theresa Conte, Program Manager, Communications and Network Systems, USMC

BG Gen Jeffrey Foley, Director of Architecture Operations, Network and Space, CIO/G-6, US Army

Mr. Kevin MacRitchie, Vice President Global Defense, Space, & Security, Cisco Systems, Inc.

UTP-T-B: DoD AND FIRST RESPONDER COMMUNICATIONS

This panel will address relationships between DOD and civil responders. Although the military has traditionally focused on warfighting, Civil Support is not a new mission. It has its beginnings during the settlement of the new world and organization of the colonial

militia. With the establishment of the United States, the military routinely provided assistance to State and territorial governors as the nation expanded westward. Throughout its history, the military has been called upon to enforce laws, combat terrorism, participate in public works and environmental projects and assist in recovery operations following disasters.

Security of the homeland is the Nation's first priority. Today's complex threat environments require unity of effort to achieve effective and rapid response to threat activity. DOD may be requested to support a lead federal agency with unique capabilities that contribute to civilian responder and the comprehensive national response effort.

DOD will not normally be first responders at an event here within the United States homeland, its territories, Commonwealths, and Compact States. The challenge of integrating DOD forces as second responders at an incident scene is obviously difficult; the challenge of integrating DOD force communications with those of the first responders is a daunting task.

The task is intricate with the differences between military and civil radios, using different frequencies, different wave forms, different cultures and even terminology (e.g. secure the building). Funded technical solutions can be fielded with little effective results; cultural solutions can be fielded with less money and greater impact. Technical solutions provide an opportunity for Inter-talk-ability; interoperability will be realized with the blending of the cultures.

9:45am — 11:45am Omni Shoreham Hotel, Palladian Ball Room 

Panel Organizer: Mr. Norm Michaels, Principal Engineer, MITRE Corporation

Panel Moderator: COL. Jim Kohlmann, Science and Technology Advisor, NORAD-USNORTHCOM J6 CIO, NORTHCOM

Panel Members:

MGEN Alan Cowles, Director Command Control, Communications, and Computer Systems Division, J6, National Guard Bureau

Dr. Ron Jost, Director for Wireless for C3 and Space Programs & Policy Deputy Assistant Secretaries of Defense for C3P&P&SP, ASD-HD

Mr. Tony Frater, Deputy Director, Office for Interoperability and Compatibility, Department of Homeland Security

Col. Victoria Velez, Chief of Staff, National Communications System, Department of Homeland Security

UTP-T-C: INFORMATION SHARING

Information Sharing moved into the national spotlight when the 9-11 Commission cited problems in sharing information among various parts of the U.S. Government as a significant problem in its report. But information sharing is not really a new topic. Warfighters have been grappling for years with ways to better share information with Allies and Coalition Partners. The rapid development of highly automated C4ISR systems supported by computer networks which are segmented by classification level, compartments and organizational boundaries have created significant challenges to getting the right information into the right hands at the right time.

Do the web service initiatives under development today have the potential to solve this problem? Can technology offer solutions to securely bridging classification levels among different networks in order to better share information? Should we consider policy changes in order to allow the use of available technology to increase the ability to share information across different networks and organizations? How should we get classified IC and DoD information out to the Home Land Security Community at the State and Local Level? These and other issues will be on the table for our panelist, all senior leaders responsible for information sharing in the DoD, the IC and DHS, to address.

3:30pm — 5:00pm **Omni Shoreham Hotel, Palladian Ball Room** 

Panel Organizer: Mr. George Hull, Northrop Grumman Corporation

Panel Moderator: Ms. Rebecca Harris, Program Director, Net-Centric Enterprise Services Program, Defense Information Systems Agency


Panel Members:

Ms. Debra Filippi, Information Sharing Executive, OASD(NII) & DCIO DoD

Mr. Carter Morris, Director, Information Sharing & Knowledge Management Intelligence & Analysis, Department of Homeland Security

Mr. Richard Russell, Deputy Associate Director of National Intelligence for Information Sharing & Customer Outreach

Wednesday October 25

UTP-W-A: UNMANNED AERIAL SYSTEMS AND THEIR IMPACT ON THE GLOBAL WAR ON TERRORISM (PART 1) 

The role of Unmanned Aircraft Systems (UAS) in military operations continues to expand. Lessons learned from Kosovo and the first Persian Gulf War in 1991 where Iraqi soldiers surrendered to Pioneer Unmanned Aircraft System in order to avoid a more serious confrontation resulted in the enlargement and wider acceptance of Unmanned Aircraft Systems (UAS). Unmanned Aircraft Systems (UAS) have proven their worth and are assigned C4ISR and Combat missions putting the humans and expensive aircraft out of harms way. As the performance of Unmanned Aircraft Systems (UAS) continues to be enhanced, confidence and acceptance by the warfighter has solidified. The reliance on Unmanned Aircraft Systems (UAS) has culminated in the Quadrennial Defense Review recommendation that “approximately 45% of the Air Force future long range strike force will be unmanned.”

Our panelists, who represent the warfighter and the development and manufacturing communities, will discuss the warfighter’s experiences with the currently available payloads and their planned work on enhanced payloads; the joint service development of the VTUAV Fire Scout, selected by the Navy for the Littoral Combat Ship and the Army’s Future Combat Systems Class-IV UAV; current efforts on small UAS and field results; and the most recent work on UAS for maritime /shore deployment and UCAS under joint development.

8:00am — 9:30am Omni Shoreham Hotel, Diplomat Ball Room 🇺🇸

Panel Organizer: Mr. Vas Kalomiris, CERDEC, RDECOM

Panel Moderator: Mr. Anthony Lisuzzo, Director, Intelligence and Information Warfare Directorate, CERDEC, RDECOM

Panel Members:

LTC Reed Young, Product Manager, Robotic and Unmanned Sensors, US Army

Mr. Rob Hughes, Director, East Coast Operations, The Institu Group, Inc.

Mr. Michael J. Logan, Head Small Unmanned Aerial Vehicle Laboratory, NASA

Mr. Michael Fuqua, Business Development Manager, Unmanned Systems, Northrop Grumman Corporation

Mr. Rick Ludwig, Director, Unmanned Systems, Northrop Grumman Corporation

Mr. Anthony Lisuzzo, Director, Intelligence and Information Warfare Directorate

UTP-W-B: UNMANNED AERIAL SYSTEMS AND THEIR IMPACT ON THE GLOBAL WAR ON TERRORISM (PART 2) 🇺🇸

The role of Unmanned Aircraft Systems (UAS) in military operations continues to expand. Lessons learned from Kosovo and the first Persian Gulf War in 1991 where Iraqi soldiers surrendered to Pioneer Unmanned Aircraft System in order to avoid a more serious confrontation resulted in the enlargement and wider acceptance of Unmanned Aircraft Systems (UAS). Unmanned Aircraft Systems (UAS) have proven their worth and are assigned C4ISR and Combat missions putting the humans and expensive aircraft out of harms way. As the performance of Unmanned Aircraft Systems (UAS) continues to be enhanced, confidence and acceptance by the warfighter has solidified. The reliance on Unmanned Aircraft Systems (UAS) has culminated in the Quadrennial Defense Review recommendation that “approximately 45% of the Air Force future long range strike force will be unmanned.”

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