

**Meeting of the Next Generation Air Transportation System (NextGen)
Partner Agency Chief/Enterprise Architects and
Distinguished Colleagues**

Speaker Biographies

Mark Andrews

**Joint Planning and Development Office (JPDO) Assistant Director -
Commerce and JPDO Weather Working Government Co-Chair
Department of Commerce**

Mark Andrews graduated from Waterford Township (Michigan) High School and the University of Michigan, where he graduated with a Bachelor's of Science in Atmospheric and Oceanic Science. After finishing college, he served as a commissioned officer in the U.S. Air Force, a position he served in for nearly 22 years in various capacities. During this service, Mark was competitively selected to attend the Air Force Institute of Technology Masters program at the Florida State University, where he graduated Summa Cum Laude with a Masters Degree in Meteorology, with special emphasis in satellite remote sensing. He subsequently supported numerous Special Access Required (SAR) programs, including the B-2 bomber, the F-117A and F-22 fighters, the Advanced Cruise Missile, and the Tri-Service Standoff Attack Missile. Mark also served as Commander, Detachment 8, at Tonopah Test Range, Nevada, where he oversaw weather support to the 37th Fighter Wing (3 F-117A fighter squadrons). Mark was assigned to the Air Staff (Pentagon) in 1992, serving as the Air Force weather lead for the Defense Meteorological Satellite Program (DMSP). Mark's last two tours of duty included selection as the Director of the Joint Typhoon Warning Center, Guam, and serving as both the Commander of the 3rd Weather Squadron, Fort Hood, Texas and as the Staff Weather Officer to the Army's III Corps Commanding General. Mark's achievements include selection as the Air Force's 1989 Outstanding Staff Meteorologist, and the Air Force's top 1990 climatologist. Mark was given the Vice-President's "Hammer" Award in 1996, and inducted into the Army's "Knowlton" Society for excellence in supporting the Army's intelligence missions. Upon retirement from the Air Force in 2000 in the rank of Lieutenant Colonel, Mark joined NOAA's National Weather Service to serve as the aviation services chief and NOAA's Aviation Weather Program Manager, a position he served in for four years prior to his selection to represent the Department of Commerce as the JPDO's Weather Working Group Government Co-Chair.

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Patricia Pickett Craighill

**JPDO Assistant Director - Defense and Senior Advisor to Chief, Warfighting
Integration and CIO SAF/XC/NextGen
Department of Defense**

Patricia Craighill is Special Advisor to the Chief, Warfighting Integration, and CIO of the Air Force (SAF/XC) for NextGen. In this role, she represents the Air Force as Executive Agent for the Department of Defense, serving as the Assistant Director of the JPDO. She also manages the efforts related to Net-Centric Information Exchange design and planning for the JPDO. Prior to joining the Air Force, Ms. Craighill was Founder and President of KeenEdge Associates, LLC, an independent contractor serving companies in the Federal contracting space, and positioning for growth into direct Federal contracting. She advised companies on business strategy, sales, and marketing, and assisted with pursuit of major government procurements. Ms. Craighill has held senior executive roles in large (\$1B+) and small (\$40M) systems integrators and service providers such as SI International (SERCO), UNITECH (Lockheed Martin), Horne Engineering, Bearing Point, PRC (Northrup Grumman), SAIC, and GTE Government Systems/ISD (CSC). She has been responsible for both general management/operations and business development. Ms. Craighill has a Bachelor of Arts degree from the College of William and Mary.

Dennis A. Dempsey, Jr.

**Senior Enterprise Architect, USAF CIO EA Division (SAF/A6PA) and BMO
Business Transformation Office (SAF/US(M)X)
MITRE**

Mr. Dempsey is a Senior Enterprise Architect at MITRE currently supporting the USAF CIO Enterprise Architecting Division (SAF/A6PA) and CMO Business Transformation (SAF/US(M)X) offices. He has been involved with the architecture discipline for over 12 years. He has an extensive background in business transformation, process improvement, applications development, and Enterprise Resource Planning (ERP) systems. Mr. Dempsey was a senior advisor for a Fortune 100 financial services company in the areas of Regulatory/Compliance and Fraud Operations. In this role, he led efforts to develop enterprise risk assessment models, remediation strategies, and compliance reporting. He was the IT Director for a major internet retailer and an Integration Manager for a global provider of service management software solutions. He has also led business transformation and value-targeted process improvement efforts in the Telecommunications (NORTEL), High-Tech (AST Computer, Samsung, UCCC), Manufacturing (RHEEM / RUUD), Utility (Blue Bonnet Electric Cooperative), and Retail (Circuit City) industries. Mr. Dempsey holds a BS in Management Information Systems from Widener University.

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Lt. Col. Jerry Huffman

**Chief, Policy and Compliance Branch, Enterprise Architecting Division
Secretary of the Air Force, Office of Warfighting Integration**

Lt. Col. Huffman currently serves as Chief, Policy and Compliance Branch, Enterprise Architecting Division, Office of Warfighting Integration and Chief Information Officer, Secretary of the Air Force; Washington, D.C. Lt. Col. Huffman earned his commission from the United States Air Force Academy in 1993. He entered the Air Force in the Space Operations career field and has completed assignments in Missile Warning/Space Surveillance, ICBMs, Space Command and Control, Officer Training, and Joint Nuclear and Space Operations. He has held leadership positions at the flight, squadron, combatant command, and Headquarters Air Force levels.

Stephen Irmo

**JPDO Lead Architect, Net-Centric Operations Division
Federal Aviation Administration (FAA)**

Stephen Irmo works at the FAA's JPDO for NextGen, serving as Program Integration Manager for the Net-Centric Operations Division, aligning portfolio, program, and project-level activities to the strategic intent of NextGen partners. Before his move to the FAA, Stephen served at the U.S. Department of State, as the agency's Chief Enterprise Architect and Division Chief in its Enterprise Architecture and Engineering Office. There he led the highly successful State/USAID Joint EA effort, the Federal Government's first full interagency EA collaboration. Mr. Irmo holds a Master of Science degree in Information Technology Management from Syracuse University. He is also a graduate of National Defense University's Advanced Management Program (AMP), and holds the CIO Council's Chief Information Officer's (CIO) Certification, as well as NSTISSI's Chief Information Assurance Officer Certification. Mr. Irmo's other credentials include California State University's Federal Enterprise Architects (FEAC) Certification and a PMI Professional Project Manager (PMP) certification.

Michael Little

**JPDO Lead Engineer, Net-Centric Operations Division
National Aeronautics and Space Administration (NASA)**

Michael Little is a Systems Engineer with NASA's Atmospheric Science Data Center (ASDC) at NASA Langley Research Center. His current assignment is to support the Net-Centric Operations Division (NCOD) at the Joint Planning and Development Office (JPDO) with a particular focus on weather information exposure services. Over the past 20 years working at NASA, both at

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Headquarters and at Langley, he has lead analytic and system development work in the Agency and Center CIO communities, as well as the Aeronautics and Earth Science Mission Areas. He brought to NASA ten years of system acquisition management and development experience working as a contractor in Navy, Marine Corps, and Air Force major system acquisition programs and five years as a submarine qualified, nuclear trained officer in the US Navy. Mr. Little has a BS in Physics from the University of Missouri, Columbia.

**Diana Takata
JPDO Chief Architect (Acting)
FAA**

Diana Takata has over 20 years of experience in the information technology (IT) field working for industry (financial services, manufacturing, entertainment, and pharmaceuticals) and Federal government (Education, FAA, and OMB). Her programming and EA experience dates back to punch cards, PDP-11, acoustic couplers, and System Architect v1.0 on 5 ¼ floppy. Her areas of specialization include IT strategic planning, business systems analysis, business process engineering, and enterprise architecture. She first served the FAA in 2001 as a consultant and soon thereafter was hired by the FAA and served various positions including Data Manager, Program Manager for the Aviation Safety Knowledge Management Environment (ASKME), and IT Branch Manager for the Office of Aviation Safety's Aircraft Certification Service. During her career with the FAA, Diana has also detailed with the OMB's Chief Architect and Federal Enterprise Architecture Program Management Office (FEA PMO), and contributed to the evolution of the FEA strategy, framework, and products. After OMB, in October 2006, Diana joined the JPDO as Deputy Director of the Portfolio Management Division. Since 2009, she has worked in the JPDO's Interagency Architecture and Engineering Division, and since November 2009 has served as the Acting JPDO Chief Architect. Diana holds a B.A. from Occidental College, an M.A. from UCLA, and is working towards her Executive Certificate in Management/Leadership from the MIT Sloan School of Management.

**Dr. Edgar G. Waggoner
Director, JPDO Interagency Architecture and Engineering Division
NASA**

Dr. Edgar G. Waggoner (Ed), a NASA Langley Research Center employee, is currently serving as the Director, Interagency Architecture and Engineering Division, in the Next Generation Air Transportation System (NextGen), JPDO. His current responsibilities include leading the development of the Enterprise Architecture, Concept of Operations, and Integrated Work Plan to support the NextGen planning and development effort. In addition, he is a co-author on the

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Mobility Chapter of the National Aeronautics R&D Plan published in December 2007. Dr. Waggoner joined NASA Langley Research Center in 1982 after working for 13 years as a researcher and project engineer with Vought Corporation in Dallas, Texas. During his 25-year tenure at Langley, he has held positions of increasing responsibility in both experimental and computational aerodynamics research and research management. Dr. Waggoner earned a Bachelor of Aerospace Engineering Degree from Auburn University, a Master of Science in Mechanical Engineering from Southern Methodist University, a Master of Engineering Administration Degree and Doctor of Science in Engineering Management both from George Washington University.

Jesse Wijntjes

**NAS Chief Architect and Enterprise Architecture Group Manager, Systems Engineering and Safety Directorate
FAA**

In May of 2008, Jesse Wijntjes rejoined the FAA as the NAS Chief Architect and Enterprise Architecture Group Manager in the Systems Engineering and Safety Directorate in FAA HQ. He holds a MSE from Catholic University in Washington, DC and a BSEE from Union College in Schenectady, NY. Jesse has over 23 years of experience as a systems engineer/chief engineer in Government and Industry. His government service includes positions at the Department of the Navy/Naval Air Systems Command, National Oceanic and Atmospheric Administration (NOAA), and the Federal Aviation Administration (FAA). He has managed the design, development, and deployment of multiple airborne night vision navigation and targeting systems aboard Navy attack, fighter, and rotary platforms, including the Harrier, Hornet, Tomcat, Hawkeye, and Intruder. He has managed the development and deployment of meteorological weather processing and sensor systems at the National Weather Service including AWIPS and NEXRAD, and has overseen several acquisitions for the FAA, including the Display System Replacement (DSR), User Request Evaluation Tool (URET), and the En Route Information Display System (ERIDS). In Industry, he served as a Senior Systems Engineer and Engineering Manager on several Command and Control, Air Defense, and Homeland Security procurements for domestic and international customers, including deployments in the Middle East, North Africa, and Europe.