SPEAKER PROFILES

William (Curt) Barker
Associate Director and Chief Cybersecurity Advisor
NIST Information Technology Laboratory

Mr. Barker is directly responsible for planning, directing, and implementing the policies and programs of the NIST cybersecurity program. He also conceives and implements strategic plans and executive direction to ensure that the scientific and technical activities promote the mission and goals of Lab/Program and NIST. Mr. Barker is the Department of Commerce Lead for the National Strategy for Trusted Identities in Cyberspace. He was recently assigned to the Department of Commerce Office of Policy and Strategic Planning as head of the Cybersecurity and Privacy Coordination Office. He was also recently Chief of the Information Technology Laboratory's Computer Security Division. Prior to becoming Division Chief, Mr. Barker was Program Manager for NIST Personal Identity Verification activities. He managed development of the HSPD #12-mandated Federal Information Processing Standard 201 and several NIST recommendations and guidelines that implement the FIPS. Mr Barker previously managed development of several NIST guidelines required by FISMA and is participating in the development of a number of NIST cryptographic publications. He has worked in the information security field since 1966. Before joining NIST, Mr. Barker worked in National Security Agency information assurance organizations, and subsequently held private sector positions of Vice President and Director of Independent Research and Development at two information assurance companies: PE Systems and Trusted Information Systems.

Sandy Barsky
Enterprise Architect
GSA Cloud Computing Service

Mr. Barsky is an MBA and graduate of the University of San Diego and Marymount University. He is a Senior fellow in Government Leadership at the Partnership for Public Service. Currently he serves GSA as the Enterprise Architect for the GSA Cloud Computing Service.

In his previous role Mr. Barsky was a program manager for the GSA Government Paperwork Reduction and eSignature compliant contracting process. In this capacity he introduced the use of Open Source, ECMS, and SOA, into the GSA FAS environment. Mr. Barsky also served the GSA/FAS CIO as the first IT Relationship Manager and Enterprise Architect.

Michael Berman
Chief Technology Officer
Catbird

Michael Berman joined Catbird as Chief Technology Officer in October 2006, with over 20 years experience in system engineering, architecture, design and implementation of secure computing. Michael's experience in information security is far-reaching, including implementation of C2 UNIX; Fortune 100 enterprise security; and expert support in the prosecution of high profile computer crimes such as "United States v. Robert S. Gordon."

Michael was previously a principal at IS–DATA, LLC an elite enterprise security design and computer forensic investigation professional services company. He performed hundreds of computer forensic

investigations, designed enterprise security solutions and lead security assessments. Michael served in numerous roles for his service customers: ISO 27001 compliance manager, Chief Security Officer and Incident Response Manager.

Prior to IS–DATA, Mr. Berman was the Western Region, VP of Professional Services for Predictive Systems, Inc, delivering security services and assessments nationally to numerous industries.

Michael received his BA in Computer and Information Sciences from the University of California Santa Cruz. He is a Certified Information Security Systems Professional (CISSP 4097) and a member of the SF Electronic Crimes Task Force.

Scott A. Bernard, Ph.D.
Federal Chief Enterprise Architect
OMB , Executive Office of the President

Scott Bernard serves as the Federal Chief Enterprise Architect with the Office of Management and Budget, Executive Office of the President. He brings to this position nearly thirty years of experience in information technology management, including work in the government, military, business, and academic sectors. Dr. Bernard has held positions as a Chief Information Officer, Chief Information Security Officer, enterprise architect, IT management consultant, network operations manager, telecommunications manager, and project manager for several business and technology transformation initiatives.

He has served as a senior executive or consultant with a number of federal agencies, started an enterprise architecture practice for a major IT management firm, developed his own consulting practice, and lectured on the topic of enterprise architecture world-wide. Dr. Bernard has served for over a decade on the faculty of Syracuse University's School of Information Studies (iSchool), where he helped establish an executive doctorate program in 2008 and collaborated with the Maxwell School of Citizenship and Public Affairs to establish a graduate certificate in E-Government in 2010. He also has served for six years as a senior lecturer with Carnegie Mellon University's School of Computer Science - Institute for Software Research, where he developed a professional certificate program in enterprise architecture. Dr. Bernard was the founding editor of the Journal of Enterprise Architecture, and served as Chief Editor from 2005-2010. In 2004, he wrote a textbook on enterprise architecture that is now in use at universities and in training programs around the world.

 Dr. Bernard earned his Ph.D. at Virginia Tech in Public Administration and Policy, a master's degree in Information Management from Syracuse University, a master's degree in Business and Personnel Management from Central Michigan University, and a bachelor's degree in Psychology from the University of Southern California. He is a graduate of the United States Naval War College, and earned a Chief Information Officer Certificate and an Advanced Program Management Certificate from the National Defense University's iCollege. He is a former career naval aviator who served on aircraft carriers and with shore squadrons, led IT programs, and completed his military service as Director of Network Operations for the Joint Chiefs of Staff at the Pentagon.

David Bernstein
Principal, Cloud Strategy Partners, LLC
Standards Chair, IEEE Cloud Computing Section

David Bernstein is Managing Director of Cloud Strategy Partners, LLC, specializing in Cloud Computing consulting, serves many clients in Communications, Networking, and Security. A representative client list includes Cloudscaling, Huawei Technologies, Aria Systems, Catbird Networks, Xtium, Finisar, Obopay, Veloxum, and Intelliden Inc. Previous to Cloud Strategy Partners, David was at Cisco as VP/GM of the Network Applications Infrastructure Business Unit; then started Cloud Computing for Cisco in the Office of the CTO. David's previous experience includes executive positions in AT&T, Siebel Systems, Pluris, Intertrust, and Santa Cruz Operation. David holds nearly a dozen patents in software and communications, speaks and publishes regularly in IEEE, ACM, IARIA, and Industry conferences, and is Founder and Working Group Chairman, of IEEE P2301 Guide for Cloud Portability and Interoperability Profiles and IEEE P2302 Standard for Intercloud Interoperability and Federation. He has been a key author/contributor to many other industry standards such as OpenSOA.org, OASIS SCA, WS-I, JCP/J2EE, and IEEE POSIX. David holds degrees in Physics and Mathematics from University of California where he was awarded the UC Regents Scholar designation for his Office of Naval Research work. David keeps an active with webcasts, papers, blog, conference schedule, board activities, and success stories at www.CloudStrategyPartners.com and david@CloudStrategyPartners.com.

Randy L. Bias
Co-Founder and CTO
Cloudscaling

Randy's provocative views on the profound disruption caused by cloud computing have made him one of the most influential voices in the industry. He uses this influence to advocate an open and honest debate about which technologies will win in driving cloud to large-scale adoption. He has inspired organizations and individuals to embrace the disruption of cloud computing to transform business processes and position themselves to succeed in a new world where computing resources are ubiquitous, inexpensive, instantly scalable, and highly available.

Since 1990, Randy has driven innovations in infrastructure, IT, operations, and 24×7 service delivery. He was the technical visionary at GoGrid and built the world's first multi-cloud, multiplatform cloud management framework at CloudScale Networks. He led the open-licensing of GoGrid's API, which inspired Sun Microsystems, Rackspace Cloud, VMware and others to openlicense their cloud APIs.

Randy's voice can be heard through the Cloudscaling blog, which has tens of thousands of page views monthly. Randy is recognized by The Next Web as one of the 25 Most Influential People Tweeting About Cloud. He was also in TechTarget top 10 Cloud Computing leaders for 2011. He led Cloudscaling in becoming one of the top 20 CRN cloud builders.

He is frequently interviewed in the trade and business media on cloud computing, and he speaks at dozens of industry events annually. Randy was recognized in 2011 as a Top Cloud Computing Leader.

Robert Bohn
Chair: NIST Cloud Computing Reference Architecture Working Group
Applied and Computational Sciences Division/ITL
NIST

Robert Bohn, of the Applied and Computational Sciences Division in NIST/ITL, serves as the Reference Architecture Lead for the NIST Cloud Computing Program. In this role, he works with industrial, academic and other government stakeholders to develop a high-level vendor neutral reference architecture and taxonomy under the NIST Strategy for Developing a US Government Cloud Computing Technology Roadmap. This architecture will be used as a frame of reference to facilitate communication, illustrate and understand how clouds services and components fit together.

Bob was a member of the National Coordination Office of the Networking and Information Technology Research and Development (NITRD) and served as the program as the Technical Coordinator for the High End Computing Interagency Working Group (HEC-IWG) and Human-Computer Interaction and Information Management Coordinating Group (HCI&IM CG) and composed entries in the President's Annual NITRD Budget Supplements.

He was a recipient of a National Science Foundation fellowship at NASA Ames Research Center in Moffett Field, CA, received Ph.D. and Master of Science degrees in Physical Chemistry from the University of Virginia, a Master's Certificate in Project Management from George Washington University School of Business and Public Management, and a Bachelor of Science degree in Chemistry from the University of Illinois.

Winston Bumpus
President, DMTF
Director of Standards Architecture
VMware, Inc.

Winston Bumpus, Director of Standards Architecture at VMware, has had over 40 years of experience in the computer industry. He is currently the President of the DMTF and co-chair of the DMTF's Cloud Management Working Group. He has chaired activities in other standards organizations including, OASIS, and The Open Group. Prior to VMware he was Director of Systems Management Architecture at Dell and he was also Director of Open Technologies at Novell, Inc. He is co-author of the books "Common Information Model" and "The Foundations of Application Management." He has participated in the DMTF for over 17 years and worked on its early development of the Common Information Model (CIM) and Web Based Enterprise Management (WBEM).

Kathy P. Conrad
Principal Deputy Associate Administrator
GSA Office of Citizen Services and Technologies
US General Services Administration

Kathy Conrad was appointed as the Principal Deputy Associate Administrator of the Office of Citizen Services and Innovative Technologies (OCSIT) in the General Services Administration on May 9, 2011. The Office of Citizen Services and Innovative Technologies is leading development and implementation of major government-wide programs that are increasing transparency, citizen participation and innovation in government.

OCSIT's strategic initiatives include data.gov, which is the flagship program supporting the President's Open Government Directive, and award-winning platforms and tools such as USA.gov and challenge.gov. that enhance citizen engagement and collaboration with government. OCSIT serves as an effective catalyst for innovation across government, and is facilitating use of emerging technologies such a new media, Web 2.0, mobile and cloud computing that improve customer experience and increase operational effectiveness and efficiency.

Ms. Conrad is the primary advisor to the OCSIT Associate Administrator on citizen services/engagement and innovative technology programs and strategic direction. She oversees OCSIT program management, policy development, oversight and implementation of OCSIT operations and stakeholder outreach.

Kathy Conrad is a proven leader, problem-solver and strategic advisor with nearly thirty years of experience in government technology programs and policies. She had been with Jefferson Consulting Group, a leading business and government consulting firm, since 1995. As Senior Vice President, she was responsible for leading the firm's strategic direction and client engagements. She served as a trusted advisor to corporate leaders of major technology firms on all aspects of government business, and worked closely with government technology executives to ensure industry alignment with government priorities and policy objectives. Previously, she managed federal marketing and assistive technology consulting for Praxis, Inc, and served as an issues analyst and speechwriter for the National Science Foundation.

Ms. Conrad served as Industry Chair of the ACT-IAC Executive Leadership Conference (ELC) in 2010, as well as Vice Chair of Tech America's Federal IT Dashboard Task Group. She was recognized for her leadership in fostering collaborative government with a 2011 Federal 100 award.

Ms. Conrad has a B.A. from Wesleyan University in Biology-Psychology.   She lives in Alexandria, VA with her husband, and has two grown daughters.

Margot Dor
Director Partnerships & EU Affairs, ETSI

ETSI is a leading ICT standards organization whose mission is to enable the emergence of global open standards for telecoms, broadcast and IT. The 700+ member companies design the work programme with their input and participation to technical committees. ETSI is located in Sophia Antipolis, France.

After holding various positions in the IT and banking industry, Margot Dor joined ETSI to launch a market intelligence unit. Since mid-10, she is working as Director for Partnerships & European Affairs.

Margot was born and raised in Marseille (France). She graduated in Political Science and International Public Law and holds a Post-graduate Degree in strategic marketing.

Paul Fontaine
E-Discovery Coordinator, Office of the CTO
Federal Aviation Administration

Paul Is the E-Discovery Coordinator at the Federal Aviation Administration in the office of the Chief Technology Officer (CTO). He is a "solutions architect" primarily focusing on E-Government, Enterprise Content Management, Electronic Records Management, and for the last two years E-Discovery. Recently, he has teamed up with the Federal SaaS Email Working
Group, several other Federal agencies and with E-Discovery vendors to develop new, standards-based, approaches to resolving E-Discovery technical issues related to the cloud. He served for three years as the chairman of the Interoperable Enterprise Content Management (iECM) standards committee.

Cita Furlani
Director, Information Technology Laboratory
National Institute of Standards and Technology (NIST)

Cita M. Furlani is Director of the Information Technology Laboratory (ITL). ITL is one of six research Laboratories within the National Institute of Standards and Technology (NIST) with an annual budget of $120 million, 367 employees, and about 160 guest researchers from industry, universities, and foreign laboratories.

Furlani oversees a research program designed to promote U.S. innovation and industrial competitiveness by developing and disseminating standards, measurements, and testing for interoperability, security, usability, and reliability of information systems, including cybersecurity standards and guidelines for Federal agencies and U.S. industry, supporting these and measurement science at NIST through fundamental and applied research in computer science, mathematics, and statistics. Through its efforts, ITL seeks to enhance productivity and public safety, facilitate trade, and improve the quality of life. Within NIST's traditional role as the overseer of the National Measurement System, ITL is addressing the hard problems in IT Measurement Research. ITL's research results in metrics, tests, and tools for a wide range of subjects such as complex systems, pervasive information technologies, and virtual measurements, as well as issues of information and software quality, integrity, and usability.

ITL has been charged with leading the nation in utilizing existing and emerging IT to meet national priorities that reflect the broad-based social, economic, and political values and goals of the country. Under the Federal Information Security Management Act, ITL is charged with developing cybersecurity standards, guidelines, and associated methods and techniques. Under other legislation, such as the USA PATRIOT Act, the Help America Vote Act, and the American Recovery and Reinvestment Act, ITL is addressing the major challenges faced by the nation in the areas of homeland security, electronic voting, and health information technology.

Furlani has served as the Acting Director of the NIST Advanced Technology Program and as Chief Information Officer for NIST. She previously served as director of the National Coordination Office for Networking and Information Technology Research and Development. This office, reporting to the White House through the Office of Science and Technology Policy and the National Science and Technology Council, coordinates the planning, budget, and assessment activities for the Networking and Information Technology Research and Development Program.

She has been awarded the Department of Commerce Silver and Bronze Medal Awards.

Patrick D. Gallagher
Under Secretary of Commerce for Standards and Technology
Director, Office of the Director
National Institute of Standards and Technology (NIST)

Dr. Patrick Gallagher was confirmed as the 14th Director of the U.S. Department of Commerce's National Institute of Standards and Technology (NIST) on Nov. 5, 2009. He also serves as Under Secretary of Commerce for Standards and Technology, a new position created in the America COMPETES Reauthorization Act of 2010, signed by President Obama on Jan. 4, 2011.

Gallagher provides high-level oversight and direction for NIST. The agency promotes U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology. NIST's FY 2010 resources include $856.6 million from the Consolidated Appropriations Act of 2010 (Public Law 111-117), $49.9 million in service fees, and $101.5 million from other agencies. The agency employs about 2,900 scientists, engineers, technicians, support staff, and administrative personnel at two main locations in Gaithersburg, Md., and Boulder, Colo.

Gallagher had served as Deputy Director since 2008. Prior to that, he served for four years as Director of the NIST Center for Neutron Research (NCNR), a national user facility for neutron scattering on the NIST Gaithersburg campus. The NCNR provides a broad range of neutron diffraction and spectroscopy capability with thermal and cold neutron beams and is presently the nation's most used facility of this type. Gallagher received his Ph.D. in Physics at the University of Pittsburgh in 1991. His research interests include neutron and X-ray instrumentation and studies of soft condensed matter systems such as liquids, polymers, and gels. In 2000, Gallagher was a NIST agency representative at the National Science and Technology Council (NSTC). He has been active in the area of U.S. policy for scientific user facilities and was chair of the Interagency Working Group on neutron and light source facilities under the Office of Science and Technology Policy. Currently, he serves as co-chair of the Standards Subcommittee under the White House National Science and Technology Council.

Adrian R. Gardner, B.S., M.S., MPA
Director of Information Technology and Communications Directorate and CIO
Goddard Space Flight Center
National Aeronautical and Space Administration

Mr. Adrian R. Gardner's Federal career is distinguished by over 20 years of federal service enabling mission capability and readiness within the Scientific and Defense-related sectors in an innovative and secure manner. Mr. Gardner was the recipient of 2005 Federal 100 award, which honors individuals from government, industry, and academia whose ideas and accomplishments had the greatest impact in shaping the missions, solutions, and results achieved by the government information technology community. Mr. Gardner also serves as a member of **Industry Advisory Council's (IAC)** Infosec and Privacy Shared Interest Group's Advisory Board.

Mr. Gardner is a member of the Senior Executive Service and currently serves as the Director of the Information Technology and Communications Directorate (ITCD) and Chief Information Officer (CIO) for the Goddard Space Flight Center (GSFC). As the Director of ITCD and CIO for GSFC, Mr. Gardner is responsible for providing the GSFC workforce the information infrastructure and tools that adapt and evolve to effectively and securely support management, science, research, and technology programs; developing, implementing, and operating specialized information technology (IT) systems to support NASA mission planning and operation; and providing systems that disseminate information to the public and that preserve NASA's information assets. The GSFC CIO also assures consistency of approach, including appropriate collaboration, right sizing IT services and products in order to enable the most efficient and effective provision of IT services to the Center as a whole. Mr. Gardner also works closely with the Agency Office of the Chief Information Officer and the GSFC Office of the Chief Financial Officer to develop a full and accurate accounting of IT expenditures, related expenses, and results. This working relationship ensures the optimization of IT resources when planning, acquiring, managing, and using IT to accomplish GSFC's missions and programs efficiently, effectively, safely, and securely. Finally as the Director of the ITCD, Mr. Gardner has the responsibility, authority and accountability for ensuring that GSFC's information assets are acquired and managed consistent with Agency and federal policies and procedures, and legislation; and that the Center's Information Resource Management (IRM) strategy is in alignment with NASA's vision, mission, and strategic goals.

Mr. Gardner is a Doctoral Candidate at the University of Southern California, School of Public Policy and Planning where he holds a Masters degree in Public Administration. Mr. Gardner also holds a Master of Science degree in Environmental Studies from Hood College and a Bachelor of Science in Biological Science and Ecology from the esteemed Tuskegee Institute. Mr. Gardner serves on the Board of the District of Columbia Urban League and a volunteer and mentor to several academic and youth programs.
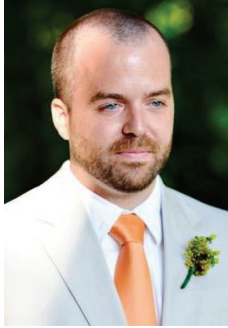
Matt Goodrich
Project manager, FedRAMP and Apps.gov
General Services Adminstration

Matt Goodrich has been a project manager for GSA on the Federal Cloud Computing Initiative in the Office of Citizen Services and Innovative Technologies since August of 2009. In this role he manages the Federal Risk and Authorization Management Program (FedRAMP), as well as Apps.gov. Previously, Matt managed the technical requirements creation for the Infrastructure as a Service (IaaS) Blanket Purchase Agreement through Apps.gov and launched and managed the cloud info portal at Info.Apps.Gov. Matt has a BBA in Computer Information Systems from the University of Miami and a Juris Doctor from the University of Denver.

Douglas Gourlay
Vice President, Marketing
Arista Networks, Inc.

As Vice President of Marketing Douglas Gourlay is responsible for product and solutions marketing, communications, and the strategic alliances of Arista Networks. Prior to joining Arista, Doug was the VP of Data Center Marketing at Cisco Systems where he held key roles in sales, product development, and marketing. Doug has filed or holds more than twenty patents in networking technologies.

Prior to his work in the technology sector Doug served as a US Army Infantry Officer.

Jeremy A. Grant
Senior Executive Advisor for Identity Management
NIST

Jeremy Grant is NIST's senior executive advisor for identity management, focused on the National Strategy for Trusted Identities in Cyberspace (NSTIC). Mr. Grant comes to NIST with a diverse background and deep understanding of identity and cybersecurity issues, having served in a range of leadership positions spanning government and industry. He began his career as a legislative aide in the U.S. Senate, where he drafted the legislation which laid the groundwork for the Department of Defense and GSA smart card and PKI efforts. Mr. Grant then joined the Intelligent Technologies Division at MAXIMUS, a government services firm, where he led the division's Security and Identity Management practice, and played a major role in a number of major federal identity and security programs. He then spent three years with Washington Research Group as the firm's identity and cybersecurity market analyst. Most recently, Jeremy served as Chief Development Officer for ASI Government (formerly Acquisition Solutions, Inc.), a consulting firm focused on helping government agencies improve results through the application of better acquisition, organizational and program management practices. Jeremy is a former co-chair of the Identity Management Committee at TechAmerica (previously the Information Technology Association of America). He graduated with distinction from the University of Michigan with dual concentrations in biology and political science.

Melvin B. Greer
Senior Fellow and Chief Strategist, Cloud Computing Lockheed Martin

Melvin Greer is Senior Fellow and Chief Strategist, Cloud Computing Lockheed Martin, Chief Technology Office. With over 25 years of systems and software engineering experience, he is a recognized expert in Service Oriented Architecture and Cloud Computing. He functions as a principal investigator in advanced research studies. He significantly advances the body of knowledge in basic research and critical, highly advanced engineering and scientific disciplines. Mr. Greer is a Certified Enterprise Architect, the Vice-chair of the Network Centric Operations Industry Consortium (NCOIC), Cloud Computing Working Group and an Advisory Council member of the Cloud Security Alliance. In addition to his professional and investment roles, he is Fellow and Adjunct Faculty at the FEAC Institute. He is also a member of the International Monetary Fund / World Bank, Bretton Woods Committee. Mr. Greer is a frequent speaker at conferences and universities and is an accomplished author, "The Web Services and Service Oriented Architecture" and "Software as a Service Inflection Point, Using Cloud Computing to Achieve Business Agility" are his most recently published books.
Greer received his Bachelor of Science degree in Computer Information Systems and Technology and his Master of Science in Information Systems from American University, Wash. D.C. He also obtained his Post Graduate Certificate in Executive Leadership, Cornell University, Johnson Graduate School.

Michael D. Hogan
NIST

Mr. Michael D. Hogan has worked as an electronics engineer at the National Institute of Standards and Technology (NIST) since 1974. As the Standards Liaison for the NIST Information Technology Laboratory, he represents NIST at national and international fora that advance measurement science, testing, and standards in support of more interoperable, usable, scalable, reliable, and secure information technology (IT). Since September 2003, Mr. Hogan has served as the Convener of the international standards group: ISO/IEC JTC 1/SC 37 Working Group 4 - Biometric Functional Architecture and Related Profiles. Since the beginning of 2007, Mr. Hogan has served as the Chair of the Standards and Conformity Assessment Working Group of the NSTC Subcommittee on Biometrics and Identity Management. Mr. Hogan is also serving as the Co-Convener of the NIST Cloud Computing Standards Roadmap Working Group, which was established in January 2011.

Michaela Iorga
Senior Security Technical Lead for Cloud Computing
Computer Security Division
National Institute of Standards and Technology (NIST)

Dr. Iorga serves as the senior security technical lead for the NIST Cloud Computing. She joined NIST team in 2008, bringing a diverse background and deep understanding of information systems security, cybersecurity, identity and privacy issues, and strong knowledge in the development of complex security architectures, having served in a wide range of consulting positions with government and private industry. Dr. Iorga is also leading several other NIST efforts, among them are the development of the Federal Information Processing Standard 140-3 , Security Requirements for Cryptographic Modules; and the implementation of a NIST public, secure

randomness source. She also contributes to the NIST efforts of developing the security testing and certification requirements for electrical smat grids. Before joining NIST, Dr. Iorga was the president of the MiTech Consulting Inc., and subsequently held other private sector positions with VDG inc., Duke University, and Merchand Marine Institute of Constanta.

Michaela Iorga is a magna cum laude gradute of the University of Lower Danube from where she holds a B.S. and M.S. in naval architecture and maritime engineering, and a Ph.D. from Duke University, Pratt School of Engineering, in 1998.

Kevin Jackson
General Manager
Cloud Services, at NJVC, LLC.

Before joining the company, Mr. Jackson served in various senior management positions with Dataline, LLC; Cryptek, Inc.; IBM; and JP Morgan Chase. Recently, he was named a "Cyber Security Visionary" by *U.S. Black Engineer and Information Technology* magazine.

Mr. Jackson retired from the U.S. Navy, earning specialties in Space Systems Engineering, Airborne Logistics and Airborne Command and Control. He also served with the National Reconnaissance Office, Operational Support Office, providing tactical support to Navy and Marine Corps forces worldwide.

Mr. Jackson is the founder and author of "Cloud Musings" (http://kevinljackson.blogspot.com), "Cloud Musings on Forbes" (http://blogs.forbes.com/kevinjackson), and the founder and editor of *Government Cloud Computing on Ulitzer* electronic magazine (http://govcloud.ulitzer.com). His first book, *GovCloud: Cloud Computing for the Business of Government* was released in March 2011. Kevin has also been recently named CIO of GovCloud.com (http://www.govcloud.com).

Kevin has been deeply involved in the broad collaborative effort between industry and the U.S. National Institute of Standards and Technology on the federal government's adoption of cloud computing technologies. He is the Network Centric Operations Industry Consortium's Cloud Computing Working Group Chairman, and his formal education includes a Master of Science, Electrical Engineering (Computer Engineering); a Master of Arts degree in National Security & Strategic Studies; and a Bachelor of Science degree in Aerospace Engineering.

Viktor Kaufmann
Senior Technical Consultant, Knowcean Consulting, Inc.
Associate, Cloud Computing Program
NIST

Viktor Kaufmann, Senior Technical Consultant, Knowcean Consulting, Inc., works as an Associate at the National Institute of Standards and Technology in support of the NIST Cloud Computing Program.   Mr. Kaufmann is the Chair of the Business Use Cases Working Group and is responsible for the collection, documentation, and analysis of business use cases. He has nearly 20 years of IT experience in a variety of industries, including health research, telecommunications, financial, and manufacturing. He received his BA from the University of Chicago and his MBA from the University of Chicago Booth School of Business.

Ronald B. Knode
CSC Director, Trusted Cloud & Hosting
Research Associate, Leading Edge Forum

Ron Knode is a Director in the CSC Trusted Cloud & Hosting business unit, where he serves as the Trust Architect for CSC's cloud services. He is also a Research Associate in CSC's internal "innovation think tank", known as the Leading Edge Forum (LEF), and an adjunct associate professor in the graduate school for the Center of Applied IT (CAIT) at Towson University in Towson, Maryland.

Prior to his selection to the LEF, Ron was a Director in CSC's Global Security Solutions business unit where he was responsible for the design, provisioning, deployment, and measurement of end-to-end security solutions that support CSC's commercial and government clients around the world. Along with his current operational and architectural duties, Ron serves the LEF as the primary researcher and author for a program entitled "Digital Trust"1. That program explores the ability of an enterprise to create new value with security services and technologies, rather than attempting only to do an incrementally better job of protecting the enterprise value that already exists. He has also published a follow-up report with the ACLI on the application of digital trust in the life and annuity industry.2

Today, in his role as the CSC cloud services Trust Architect, Mr. Knode is bringing digital trust to cloud processing. His research conclusions and innovative trust creation ideas for cloud processing are contained in his influential publication "Digital Trust in the Cloud."3 That original research work has been extended by Ron in additional research and throughout CSC's trusted cloud services initiative. He is the creator of the CloudTrust Protocol for reclaiming transparency in the cloud,4 and now leads the project team in the Cloud Security Alliance (CSA) that is integrating the CloudTrust Protocol fully into the CSA's recommended cloud governance, risk, and control stack.5 Throughout all of these efforts, Ron is applying the principles and practices of digital trust to deliver enterprise payoffs through cloud processing models as well as traditional processing models.

Mr. Knode holds bachelor and master's degrees in mathematics from the U.S. Naval Academy and the U.S. Naval Postgraduate School, and he has completed doctoral coursework in computer science at the University of Maryland. He has been a Certified Information Security Manager (CISM) in accordance with the standards and qualifications of the Information Systems Audit and Control Association (ISACA). He is also a fully trained Black Belt in Six Sigma quality improvement processes.

Dawn Leaf
NIST Senior Executive for Cloud Computing
Information Technology Laboratory
National Institute of Standards and Technology

Dawn Leaf is a Senior Advisor in the National Institute of Standards and Technology Information Technology Laboratory, and the NIST Senior Executive for Cloud Computing.
Prior to her appointment to NIST in March 2010, Ms. Leaf served as the Deputy Chief Information Officer/Chief Technology Officer for the United States Department of Commerce, the Chief Information Officer of the Bureau of Industry and Security, the Chief Technology Officer of the Smithsonian Institution, and as the Manager of System Architecture of the United States Patent and Trademark Office.

Before joining the federal government in 1999, Ms. Leaf acquired broad experience in Information Technology management, advanced technology, and large scale distributed systems development and engineering. She served as the program manager for several National Aeronautics and Space Administration (NASA) and National Oceanic and Atmospheric Administration (NOAA) programs under contract. Ms. Leaf's foundation in Information Technology came from her 1981-1995 tenure with the Westinghouse Electric Corporation (Northrop-Grumman). Highlights include the 1992 George Westinghouse Signature of Excellence Award and appointment as the Information Systems Manager for the Oceanic sonar and anti-submarine warfare facility. Dawn Leaf holds an M.S. in Systems Engineering from the Johns Hopkins University, Whiting School of Engineering, and is a cum laude graduate of McDaniel College.

Craig A. Lee
Senior Scientist
Computer Systems Research Department,
The Aerospace Corporation

Craig A. Lee is a Senior Scientist in the Computer Systems Research Department of The Aerospace Corporation, a non-profit, federally funded, research and development center. Dr. Lee has conducted DARPA and NSF sponsored research in the areas of grid computing, optimistic models of computation, active networks, and distributed simulations, in collaboration with USC, UCLA, Caltech, Argonne National Lab, and the College of William and Mary. Dr. Lee has been involved with the Open Grid Forum (OGF) from its inception in June, 1999, and served as its President from 2007 to 2010. During this time, he brokered working relationships with many other standards organizations and facilitated the development of the Open Cloud Computing Interface (OCCI), an open standard API for infrastructure clouds. He currently sits on OGF's Board of Directors. Dr. Lee is on many cloud study panels for different agencies within the US government and has contributed to NIST's Cloud Computing Standards Roadmap Working Group. He also sits on the Roadmap Editorial Board for SIENA (Standards and Interoperability for e-Infrastructure and Implementation Initiative), an FP7 project reporting to the European Commission concerning grid and cloud standards. Dr. Lee is also active in the Large Data Working Group for the Open Cloud Consortium facilitating on-demand, satellite imagery analysis for disaster assessment, in collaboration with NASA Goddard.

Dr. Lee has published over 69 technical works, is on the steering committee for the Grid XY and CCGrid conference series, and sits on the Editorial Boards of Future Generation Computing Systems (Elsevier) and the International Journal of Cloud Computing (Inderscience). Dr. Lee holds a Ph.D. in Computer Science from the University of California, Irvine."
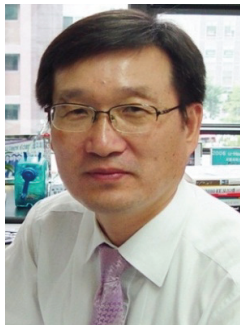
Yeong Ro LEE
National Standards Coordinator for Cloud Computing
Korean Agency for Technology and Standards

Yeong Ro Lee is the National Standards Coordinator for Cloud Computing in Korean Agency for Technology and Standards with overall responsibility for technology and standard planning and managing across Cloud Computing community and Standard organizations in Korea. In early 2011, Korea Government named the National Standards Coordinators to eight strategic industry areas including Electric Vehicle, Smart GRID, Cloud Computing and He Lee was assigned as the Standards coordinator

for Cloud Computing.

Before coming to the KATS, He had been a vice president of NIA, National Information Society Agency in Korea over 15 years leading National Broadband Infra and e-Government Initiatives. He received MBA degree from Korea University and Ph.D in MIS from the Hankook University of Foreign Studies respectively.

John Messina
Chair: NIST Cloud Computing Reference Architecture Working Group
Senior Member of Cloud Computing Project
NIST

John Messina is a senior member of the Cloud Computing (CC) Project at the National Institute of Standards and Technology (NIST). He holds a M.S. in Computer Science and B.S. in Physics and has been working at NIST as computer scientist since 1998. He has a distinguished record of scientific accomplishments, such as publications and industry presentations, and has received several awards, including NIST's Edward Bennett Rosa Award and the US Department of Commerce's Bronze Medal. Having spent the last few years helping developing data dictionaries and data exchange standards for the US Electronics Industry, he has been co-leading the NIST CC Reference Architecture working group. His particular focus has been on leading efforts to create Cloud Computing Ontologies and various taxonomies.

Tom McAndrew
 EVP, Professional Services
Coalfire

 Tom McAndrew is the EVP of Professional Services at Coalfire and manages all IT Audit, and Assessment teams. During his time at Coalfire, he has worked with more than 500 organizations government, retail, military, service providers, healthcare, financial institutions, and application developers.
Coalfire has grown to become one of the largest independent IT assessment firms in the country, conducting more than 2,000 independent assessments annually. Under his leadership, Coalfire has certified more service providers with the Payment Card industry (PCI) requirements than AT&T, Verizon, IBM, SAIC, and Protiviti combined.
Tom is a recognized expert in auditing and assessing virtual and cloud computing environments, and he has presented at VMWorld, the Information Systems Audit and Controls Association (ISACA), the Information Systems Security Association (ISSA), the Federal Trade Commission (FTC), the Federal Deposit Insurance Corporation (FDIC) and the Payment Card Industry (PCI). He has published several articles and whitepapers and is frequently quoted on virtual and cloud computing topics.
Tom has a unique mix of commercial and federal experience. He has extensive experience working with commercial software and cloud providers such as Microsoft, Oracle, Savvis, CenturyLink, Vmware, and HP. He has supported a variety of federal organizations such as the U.S. Navy, SPAWAR, NAVSEA, and the Department of Veteran's Affairs. He is also leading the Federal assessment team for one of the first service providers going through FEDRAMP.
He is the current President of the Seattle chapter of the Information Systems Audit and Controls Association (ISACA). He is a graduate of the United States Naval Academy, holds an MBA from the University of Washington, and a Master of Science in Information Technology – Information Assurance from the University of Maryland and numerous industry certifications.

Kazutaka NAKAMIZO
Director for Policy Coordination of the ICT Strategy Policy Division,
Global ICT Strategy Bureau,
Ministry of Internal Affairs and Communications (MIC), Japan

Mr. NAKAMIZO is Director for Policy Coordination of the ICT Strategy Policy Division, Global ICT Strategy Bureau, Ministry of Internal Affairs and Communications (MIC), Government of Japan.
Mr. NAKAMIZO has 18 years' experience working for the Japanese Government and establishing ICT policies. Before he was assigned for the present position, from 2009 to September 2011, he was Director-General of Broadcasting Department of Chugoku Bureau of Telecommunications, MIC's local branch located at Hiroshima. From 2007 to 2009 he was Senior Deputy Director of Telecommunications Bureau and Global ICT Strategy Bureau, MIC.

From 2004 to 2007 he was First Secretary of the Permanent Delegation of Japan to the OECD.

Bill Newhouse
Cybersecurity Advisor
Computer Security Division
National Institute of Standards and Technology (NIST)

Bill Newhouse is a cybersecurity advisor in NIST's Computer Security Division. He provides strategic direction for the National Initiative for Cybersecurity Education (NICE). He also leads NIST's partnership with DHS S&T and the Financial Service Sector Coordinating Council (FSSCC) to develop and test innovative cybersecurity technologies and processes that have the potential to improve the cybersecurity of the financial services sector infrastructure. Mr. Newhouse co-chairs the Cyber Security and Information Assurance Interagency Working Group (CSIA IWG), a federal coordination body in the NITRD program, responsible for drafting a Strategic Plan for federal cybersecurity research and development.

Before coming to NIST in early 2010, Bill spent five years in the Office of the Secretary of Defense where he worked on cybersecurity R&D planning and portfolio management. He was part of the Defense Venture Catalyst Initiative (DeVenCI) and led the effort to build a collaborative space known as IA Connect where Department of Defense professionals could learn what colleagues in the Department already know about Information Assurance vendors and products. Mr. Newhouse is a graduate of both the Georgia Institute of Technology and George Washington University and has been with the federal government for over 24 years.

Alan Sill
Senior Scientist at the High Performance Computing Center
Adjunct Professor of Physics at Texas Tech University

Dr. Alan Sill is currently Senior Scientist at the High Performance Computing Center and Adjunct Professor of Physics at Texas Tech University, and serves as Vice President of Standards for the Open Grid Forum. He is an internationally recognized expert on advanced scientific computing systems and software, and has played a strong role in many distributed computing, cloud and grid development projects and associated standards efforts.

Dr. Sill serves on the Roadmap Editorial Board (REB) for the Standards and Interoperability for eInfrastructure Implementation Initiative (SIENA)."

SIENA's objectives are complementary to the role of the US National Institute of Standards and Technology (NIST) in cloud standards, guidance and technology. NIST partners with the EC and SIENA specifically in these areas. SIENA & NIST have developed a working relationship to help exchange efforts in common needs, recommendations and next steps.

Annie Sokol
IT Specialist, Computer Security Division, ITL
NIST

Ms. Annie Sokol is an IT Specialist in the Information Technology Laboratory's Computer Security Division at the National Institute of Standards and Technology (NIST). She is serving as the Designated Federal Officer for the Information Security and Privacy Advisory Board (ISPAB). The ISPAB advises the Secretary of Commerce and the Director of the Office of Management and Budget on emerging information security and privacy issues pertaining to Federal Government information systems. Annie also serves as the Co-Convener of NIST Cloud Computing Standards Roadmap Working Group and as a member of the NIST PIV card team for the development of FIPS 201, Personal Identity Verification for Federal Employees and Contractors. Previously, Annie served as the Vice Chair of INCITS B10.12, Integrated Circuit Cards with Contacts. Before joining NIST, Annie held various administration positions in the private sector for over twenty years.

James A. St. Pierre
Deputy Director, Information Technology Laboratory
National Institute of Standards and Technology (NIST)

James A. St. Pierre is Deputy Director of the Information Technology Laboratory (ITL). ITL is one of six research Laboratories within the National Institute of Standards and Technology (NIST) with an annual budget of $120 million, 367 employees, and about 160 guest researchers from industry, universities, and foreign laboratories.

Along with the ITL Director St. Pierre oversees a research program designed to promote U.S. innovation and industrial competitiveness by developing and disseminating standards, measurements, and testing for interoperability, security, usability, and reliability of information systems,

including cybersecurity standards and guidelines for Federal agencies and U.S. industry, supporting these and measurement science at NIST through fundamental and applied research in computer science, mathematics, and statistics. Through its efforts, ITL seeks to enhance productivity and public safety, facilitate trade, and improve the quality of life.

Within NIST's traditional role as the overseer of the National Measurement System, ITL is addressing the hard problems in IT Measurement Research. ITL's research results in metrics, tests, and tools for a wide range of subjects such as complex systems, pervasive information technologies, and virtual measurements, as well as issues of information and software quality, integrity, and usability.

ITL has been charged with leading the nation in utilizing existing and emerging IT to meet national priorities that reflect the broad-based social, economic, and political values and goals of the country. Under the Federal Information Security Management Act, ITL is charged with developing cybersecurity standards, guidelines, and associated methods and techniques. Under other legislation, such as the USA PATRIOT Act, the Help America Vote Act, and the American Recovery and Reinvestment Act, ITL is addressing major challenges faced by the nation in the areas of homeland security, electronic voting, and health information technology. In addition, Mr. St. Pierre coordinates ITL's involvement in the NIST Smart Grid efforts – ITL's contributions to this effort are focused on cybersecurity and networking.

His work has been published in the NIST Journal of Research and in external publications. He has given dozens of presentations on both technical and management topics, to both national and international audiences. Before joining NIST, in 1994, he worked as a technical project leader within Loral Space Systems semiconductor design group and worked for IBM on the development of hardware and software for Los Angeles-class submarines. In addition, he worked with several universities to develop their semiconductor design curricula.


Allison Stanton
Director of E-Discovery
Civil Division,
U.S. Department of Justice

Allison Stanton is the Director of E-Discovery for the Civil Division of the U.S. Department of Justice. Among her responsibilities, Ms. Stanton develops e-discovery policies, practices, and training for the Civil Division, works with the other Department of Justice Divisions on e-discovery initiatives, advises federal agencies on e-discovery matters, and provides guidance on proposed changes to procedural rules, regulations, and legislation affecting electronic discovery.

Prior to joining the Department of Justice, Ms. Stanton was an attorney with Hogan Lovells US LLP where she represented numerous clients in complex civil cases and high-profile criminal investigations, many of which included complex e-discovery issues. Ms. Stanton also developed proactive e-discovery plans for Fortune 500 companies, including document retention policies and litigation hold and response procedures.

Ms. Stanton is the Chair of the D.C. Bar E-Discovery Committee. She is an established author and has spoken at national and international e-discovery conferences. Ms. Stanton received her law degree from the Washington College of Law, American University, summa cum laude, and received her undergraduate degree from Cornell University. Ms. Stanton clerked in the United States District Court for the Eastern District of Virginia for the Honorable Barry R. Poretz.
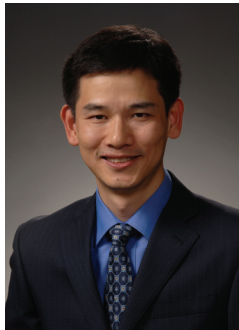
Jin Tong
Software Development Practice Manager,
Knowcean Consulting
NIST Associate

Jin Tong, is the Software Development Practice Manager at Knowcean Consulting and an associate at NIST through contract. Mr. Tong's work at NIST includes reference architecture, standards roadmap, SAJACC and cloud security. Mr. Tong has 15 years experience in delivering IT implementation solutions to commercial and government organizations in areas of enterprise system development, data warehousing, business intelligence, service oriented architecture, and cloud computing.

Keith Trippie
Executive Director, Enterprise Systems Development Office
Office of the Chief Information Officer

Keith Trippie is the Executive Director for the Enterprise System Development Office (ESDO) within Office of the Chief Information Officer (OCIO) of the Department of Homeland Security (DHS). As Executive Director for ESDO, Mr. Trippie is responsible for overseeing the department's cloud strategy and enterprise application service offerings. Mr. Trippie oversees a broad range of enterprise offerings providing capabilities for enabling a mobile workforce, enhanced information sharing across the department, and reducing the time and cost to market for new services. Mr. Trippie serves as the Chair for the DHS Applications and Services Council (ASC) which provides guidance for DHS Cloud capabilities. He also participates in several other government and private sector councils and working groups promoting commoditization of high-value IT services.

Before this position, Mr. Trippie served as the Acting Executive Director for the Enterprise Business Management Office (EBMO) within OCIO at DHS. As the Acting Executive Director of EBMO, he was responsible for generating enterprise strategies for IT business management, including portfolio management of integrated IT services, and overseeing DHS IT process and procedures for annual capital planning and budget formulation, e-Government, and the review of DHS IT acquisitions.
Mr. Trippie joined DHS in the Transportation Security Administration's Maritime and Land Division, at the time of the department's inception, where he focused on improving information sharing with TSA stakeholders.

Mr. Trippie brings more than 18 years of professional management experience delivering IT and logistics services to the public and private sectors. He also is a graduate of the University of Arkansas and the Harvard Business School Executive Education Program for Leadership Development.

Steven VanRoekel
Chief Information Officer of the United States

Steven VanRoekel is the second Chief Information Officer of the United States, appointed by President Obama on August 5th, 2011. Prior to his position in the White House, Mr. VanRoekel held two positions in the Obama Administration: Executive Director of Citizen and Organizational Engagement at the United States Agency for International Development (USAID) and Managing Director of the Federal Communications Commission (FCC). At the FCC, Mr. VanRoekel oversaw all operational, technical, financial, and human resource aspects of the agency. He also led the FCC's efforts to introduce new technology and social media into the agency.

Mr. VanRoekel worked at Microsoft Corporation from 1994 to 2009, most recently as a Senior Director in the Windows Server and Tools Division. He received a B.A. in Management of Information Systems from Iowa State University.

Philip L. Verveer
Deputy Assistant Secretary of State
United States Coordinator for International Communications & Information Policy
Term of Appointment: 08/2009 to present

Ambassador Philip L. Verveer was confirmed as Deputy Assistant Secretary of State and U.S. Coordinator for International Communications and Information Policy in August, 2009.

Ambassador Verveer has practiced communications and antitrust law in the government and in private law firms for more than 35 years. From 1969 to 1981, Ambassador Verveer practiced as a trial attorney in the Antitrust Division of the Department of Justice, as a supervisory attorney in the Bureau of Competition of the Federal Trade Commission, and as the chief of the Cable Television Bureau, the Broadcast Bureau, and the Common Carrier Bureau of the Federal Communications Commission. Between 1973 and 1977, he served as the Antitrust Division's first lead counsel in the investigation and prosecution of United States v. American Tel. & Tel. Co., the case that eventuated in the divestiture of the Bell System. As a Bureau Chief at the FCC, Ambassador Verveer participated in a series of decisions that enabled increased competition in video and telephone services and limited regulation of information services. In 1979, Ambassador Verveer became a charter member of the Senior Executive Service and in 1980 received the Distinguished Presidential Rank award. Between 1981 and 2009, Ambassador Verveer engaged in private law practice in Washington, DC.

In 1995 and 1996, Ambassador Verveer chaired the Federal Advisory Committee that identified the spectrum requirements necessary to afford public safety organizations efficient and interoperable wireless communications. He has served on the Visiting Committee of the University of Chicago Law School and the Executive Committee of the Alumni Board of Governors of Georgetown University.

Ambassador Verveer is a graduate of Georgetown University (1966, BSFS), and the University of Chicago Law School (1969, JD).

Fred Whiteside
Project Manager, NIST Cloud Computing program
Co-chair of the Cloud Computing Security Working Group

Fred Whiteside serves as Project Manager, NIST Cloud Computing program as Co-chair of the Cloud Computing Security Working Group and supporting the Target Business Use Case Development project.   Since 2008 he has served as Manger, Cybersecurity Operations and Critical Infrastructure at the Department of Commerce where he was responsible for developing the DOC CIRT, DOC SOC and Federation of Computer Incident Response Teams across the Department which engaged in coordinated response activities with multiple departments and agencies.

He served as Chief, Security Operations Division and Acting Director of the IT Security Program Office at the US Patent and Trademark Office where he was responsible for standing up its Security Operations Center (SOC) and oversaw multiple security engineering projects supporting one of the federal government's largest and most advanced telework programs. Prior to joining federal civil service he served as project manager in various capacities overseeing cybersecurity efforts at Booz Allen Hamilton and Lockheed Martin.

Mark Williams
Chief Security Officer
Microsoft Federal

Mr. Williams is the Chief Security Officer for Microsoft Federal, responsible for the security and compliance strategy of Microsoft's software and services in the Federal market. Previously, Mr. Williams served as Director of Security for Microsoft Online Services, overseeing security for Microsoft's enterprise-class online services including Exchange Online, SharePoint Online, Live Meeting, and Exchange Hosted Services. With Microsoft Online Services, Mr. Williams was responsible for developing strategic practices, policies, and initiatives for critical security and compliance needs including ISO 27001, Payment Card Industry Data Security Standard (PCIDSS), and the Federal Information Security Management Act (FISMA).

Prior to joining Microsoft, Mr. Williams led the IT Security Risk Management organization for CMS Energy, one of the nation's largest combination electric and natural gas utilities.

Yelena Yesha
Professor, Computer Science and Electrical Engineering
University of Maryland Baltimore County

Yelena Yesha received the B.Sc. degree in Computer Science from York University, Toronto, Canada in 1984, and the M.Sc. and Ph.D degrees in Computer and Information Science from The Ohio State University in 1986 and 1989, respectively. Since 1989 she has been with the Department of Computer Science and Electrical Engineering at the University of Maryland Baltimore County, where she is presently a Verizon Professor. In addition, from December, 1994 through August, 1999 Dr. Yesha served as the Director of the Center of Excellence in Space Data and Information Sciences at NASA. Her research interests are in the areas of distributed databases, distributed systems, mobile computing, digital libraries, electronic commerce, and trusted information systems. She published 8 books and over 100 refereed articles in these areas. Dr. Yesha was a program chair and general co-chair of the ACM International Conference on Information and Knowledge Management and a member of the program committees of many prestigious conferences. She is a member of the editorial board of the Very Large Databases Journal, and the IEEE Transaction on Knowledge and Data Engineering, and is editor-in-chief of the International Journal of Digital Libraries. During 1994, Dr. Yesha was the Director of the Center for Applied Information Technology at the National Institute of Standards and Technology. Dr. Yesha is a senior member of IEEE, and a member of the ACM.

Jinzy Zhu
Senior Vice President, Global IT Strategy and Planning,
Huawei Technologies

Jinzy leads the Global IT Strategy and Planning unit for Huawei Technologies, headquartered in Shenzhen, China.

Prior to joining Huawei, Jinzy was on an international assignment to build the IBM Cloud Computing Center of Greater China in a mission to accelerate the adoption of Cloud Computing and other new solutions for large enterprises and government clients.

Jinzy serves as an official committee member of the China Institute of Electronics with specialization in Cloud Computing. Jinzy has authored a series of articles on Cloud Computing in IEEE and other trade magazines. In 2011, Jinzy published the second edition of the best-selling book *Smarter Cloud Computing* in China and contributed to the book *Cloud Computing and Software Services Theory and Techniques* in the United States.

Jinzy completed her undergraduate studies at the Massachusetts Institute of Technology (MIT) and her Masters of Business Administration at Oxford University. She has worked in the United States, the United Kingdom, India and China.
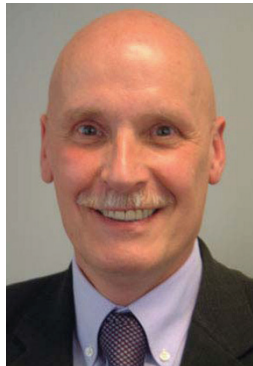
Rainer Zimmermann
Head of Unit for Software & Service Architectures and Infrastructures
Directorate General for Information Society and Media

Rainer graduated in Engineering from the Technical University (TU) of Berlin in 1977 and obtained his Dr-Ing in 1985 from the same University.

He worked from1977 to 1985 as a researcher for the TU Berlin and the Fraunhofer Society. He then joined the Commission as a Project Officer for projects in the fields of Production Engineering, High Performance Computing (1990) and Software (1992). In 1995 he became Head of Unit for Telematics between Administrations the IDA programme. After heading the Software and Systems unit (1999), the Unit for Nanoelectronics and Photonics (2005) and the Unit for Future Networks (2010) he is currently Head of Unit for Software & Service Architectures and Infrastructures of the Directorate General for Information Society and Media.