CYBER SECURITY SUMMIT 2012

Tuesday, October 9 — Wednesday, October 10
Minneapolis Convention Center

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WELCOME

Gopal Khanna
Chair, Cyber Security Summit 2012

Senior Fellow, Technological Leadership Institute,
University of Minnesota

Welcome to the second annual Cyber Security Summit. On behalf of Cyber Security Summit 2012's Advisory Board, I would like to thank all the sponsors, exhibitors, and attendees for your support on a topic of the utmost importance.

Poor cyber security is increasingly affecting all levels of society, whether it is national, local, or personal. With a few strokes of a keyboard, nation states, terrorist groups, stateless organizations, and rogue individuals can launch a cyber-attack from anywhere, at any time, disrupting and damaging our democracy and way of life.

The Summit's mission is to establish a multi-stakeholder consortium for cyber security in Minnesota which will bring together business leaders; local, state and federal government; and citizens at large, to address cyber threats. We believe that cyber security cannot be contained and outsourced to any one sector. Due to the huge scope of cyber threats, it requires active engagement of all stakeholders, including companies in every industry segment – large and small businesses alike.

We believe that Minnesota is uniquely positioned to become one of the first in the nation to develop and practice this model of cyber security. Our state has unique elements, which if combined and leveraged effectively, can yield innovative cyber security solutions. These elements include a private sector with a global footprint and an understanding of corporate and international dimensions of cyber security, high tech industry segments that depend on securing their assets, world renowned research university institutions and faculty, and informed and engaged public policy leaders. However, one of the most important resources that Minnesota boasts is its engaged and active IT-minded community, represented by you and the others who have attended and will participate in the Summit.

Your attendance today represents your leadership in not only understanding the issues at hand but also becoming part of the solution. The time is now to Plan Globally and Act Locally to protect our country and its citizens.

Thank you again for your support,

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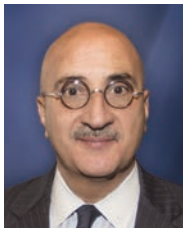

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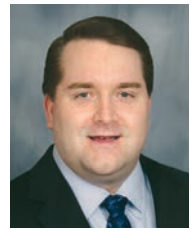

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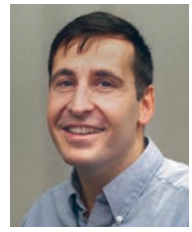

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CONFERENCE HIGHLIGHTS

VIP RECEPTION

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Minneapolis St. Paul Business Journal

Yesterday evening, Cyber Security Summit hosted an exclusive VIP Reception attended by select sponsors, speakers, and C-level executives. The Honorable Howard A. Schmidt, Former Special Assistant to the President and Cyber Security Coordinator, presented the Keynote address in which he offered his insights on interagency cyber security policy development and implementation for the US Government and coordinating engagement with federal, state, local, international, and private sector cyber security partners.

The Honorable Howard Schmidt
CISSP, CSSLP
Keynote Speaker
Former Special Assistant to the President and Cybersecurity Coordinator, The White House, Executive Office of the President of the United States

CLOSING RECEPTION

Engage with fellow leaders on cyber threat issues and their countermeasures. There will be drawings for great prizes such as a Kindle Fire, an Apple TV, and a $250 Best Buy Gift Certificate. Hors d'oeuvres and cocktails (cash bar) will be available to enjoy.

Dr. Robert Huber, founder of Huber Advisors, will be in attendance to discuss his text book RESPONSE!, which describes the process for creating a comprehensive business continuity plan. During the Closing Reception, the textbook will be on sale and Robert will be available to autograph the book with each purchase.

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Cyber Security Summit 2012 – International Cyber Security Thought Leadership

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Build a Minnesota-based multi-stakeholder consortium.

SPEAKERS

Bill Aerts, CISSP, CISM
Director, Information Risk Management
Medtronic

Bill Aerts is the Director of Information Risk Management at Medtronic. In this role, he oversees information security and is developing the medical device security practice across Medtronic. He has created and championed information security programs in the insurance, transportation, retail, and now healthcare industries. Bill received his bachelor's degree from the University of Wisconsin.

Dr. Massoud Amin
Director, Technological Leadership Institute
University of Minnesota

Dr. Massoud Amin leads extensive projects in smart grids and infrastructure security and is considered the father of smart grid. He holds the Honeywell/H.W. Sweatt Chair in Technological Leadership at the University of Minnesota, directs the University's Technological Leadership Institute (TLI), is a University Distinguished Teaching Professor, and professor of electrical and computer engineering. Before joining the University in 2003, he held positions of increasing responsibility at the Electric Power Research Institute in Palo Alto. After 9/11, he directed all Infrastructure Security R&D and led Grid Operations/Planning and Energy Markets. Prior to 9/11, he served as head of mathematics and information sciences, led the development of more than 24 technologies that transferred to industry, and twice received the Institute's highest honor.

Wade Baker
Director, Research and Intelligence
Verizon Business

Wade Baker is the Director of Risk Intelligence for Verizon. In this role, he oversees the collection, analysis, and delivery of data relevant to understanding and managing information risk. Prior to his tenure at Verizon, he was an independent consultant and spent five years on the faculty of two major research universities, most recently in the Pamplin College of Business at Virginia Tech. A researcher at heart, Baker's work on various topics has been published in a number of academic journals, professional magazines, industry reports, and books. Baker is the creator, author, and primary analyst for Verizon's Data Breach Investigations Report series.

Andrew Borene, Esq.
Executive Director
Robotics Alley™

Andrew Borene is Executive Director of Robotics Alley and serves as a Director at ReconRobotics. He is an Adjunct Professor of U.S. National Security Policy at Macalester College. A former Associate Deputy General Counsel with the U.S. Department of Defense, Andrew is a Director-at-Large with the FBI's InfraGard Alliance Minnesota Executive Board and a corporate constituent of the U.S. State Department's Overseas Advisory Council (OSAC). A former U.S. Marine officer, Andrew holds a BA in Economics from Macalester College, and a JD from the University of Minnesota. Andrew is editor-in-chief of the American Bar Association's U.S. Intelligence Community Law Sourcebook.

Christopher Buse, CPA, CISA, CISSP
Chief Information Security Officer (CISO)
State of Minnesota

Christopher Buse is the Chief Information Security Officer for the State of Minnesota. In this capacity, he is responsible for designing and implementing the enterprise security architecture for state government. Christopher is active in many professional organizations and currently serves on the Executive Committee of the Multi State Information Sharing and Analysis Center. He also sits on the Information Systems Audit and Control Association (ISACA) International Professional Influence and Advocacy Committee and has held numerous Board of Director positions in the Minnesota Chapter. Christopher was awarded the 2008 Security Professional of the Year by the Information Systems Security Association's Minnesota Chapter.

Gary Eppinger, CISA, MBB/QA
Chief Information Security Officer (CISO), VP of IT Security, Real Estate, Market Development, Legal, and Pharmacy Services
SUPERVALU Foods, Inc.

Gary Eppinger is the CISO and Vice President of Real Estate, Market Development, Legal, and Pharmacy Systems at Supervalu. In his current role he provides vision and leadership for IT process compliance and security initiatives along with providing IT Leadership to other areas of the company. Gary is also responsible for Global IT Business Continuity and reports to the CIO for Supervalu. Gary comes to us with an extensive background in enterprise information security, auditing, disaster recovery programs, risk management, IT controls, and processes. Gary has significant experience leading complex, global change management programs at several Fortune 100 companies.

SPEAKERS

John Frymier, CISSP
VP and Chief Information Security Officer (CISO)
Unisys

Mr. Frymier is the Chief Information Security Officer of Unisys Corporation. He works with functional leaders across Unisys, as well as vendors and partners to oversee the development and implementation of effective global information security policies, standards, and procedures. Furthermore, as a thought leader and practitioner, he represents the company across the industry, as well as assisting in client presentations and the development of service delivery models and client material on matters pertaining to digital security. Mr. Frymier also leads the Unisys Consumerization of IT program, charged with fostering the overall evolution of Unisys information technology strategy and implementation to accommodate mobility, and the adoption and effective use of consumer technologies in the Unisys infrastructure. Mr. Frymier previously led the Unisys Information Security Office for five years, tactically responsible for the formulation of policies, operational procedures, incident response, contract support, regulatory compliance, information asset management, IT oversight, and investigations of the digital domain on a global basis. Prior to that, Mr. Frymier led Unisys Infrastructure Engineering, with responsibilities including corporate desk/laptop computing devices and software; help desk and engineering problem resolution; global mail management; Microsoft domain infrastructure design and support; voice, local, and wide area network services; and general network engineering, performance, and capacity management. Mr. Frymier has a bachelor degree in Economics from the University of Virginia.

Ian Glazer
Research Vice President and Agenda Manager
Gartner

Ian Glazer is a Research Vice President and the Agenda Manager on the GTP Identity and Privacy Strategies team. He leads IdPS' coverage for authorization and privacy. Topics within these two main areas include externalized authorization management, XACML, federated authorization, privacy by design, and privacy programs. Other topics he covers include user provisioning, identity and access governance, access certification, role management, identity data quality, and national identity programs. Mr. Glazer is also a member of the National Strategy for Trusted Identities in Cyberspace (NSTIC) Identity Ecosystem Steering Group's Management Council. As an at-Large delegate to the Management Council, he ensures that all voices are heard among the wide range of industries, technologies, and advocates for whom identity, privacy, and NSTIC are crucial.

Brian Isle, PE
General Manager, Adventium Labs
Senior Fellow, Technological Leadership Institute,
University of Minnesota

Mr. Isle is the co-founder and a member of the technical staff at Adventium Labs. His current technical focus is in assessment of critical infrastructure safety and security. Mr. Isle is currently supporting the DOE NESCOR program to improve the cyber security readiness of the next generation power grid. Mr. Isle was a key member of a DoD program related to vulnerability assessment for force protection and a Department of Homeland Security program to apply advanced cyber protection technology to control systems for critical infrastructure, including manufacturing and industrial control systems. Mr. Isle provides consulting services to Adventium's commercial clients to ensure the successful adoption and integration of new technology. Mr. Isle has more than 20 years' experience in research management focused on technology development leading to the creation of next-generation products in avionics, industrial controls, optical network communication, asset tracking and management system, and security. Mr. Isle is on the Board of Directors of the Minnesota chapter of the FBI sponsored InfraGard organization focused on critical infrastructure and improving regional resilience. Mr. Isle is a Senior Fellow at the Technology Leadership Institute at the University of Minnesota, teaching vulnerability and risk assessment methods for critical infrastructure. He is on the Board of Advisors for the University of Minnesota's Engineering and Computer Engineering department, a member of the National Classification Management Society, a trained Facility Security Officer, and a professional engineer registered in Minnesota.

Bill Joll
President and CEO
ISC8

Before joining ISC8, Joll was President of Velocitude, an early stage mobile web services platform company. Akamai Technologies, Inc., the leading provider of cloud-based services for the web, mobile content, and applications, acquired the company in June of 2010. After the acquisition, Joll was involved in the integration of Velocitude's platform into Akamai's framework. In May 2006, Joll was appointed President and Chief Executive Officer of On2 Technologies, where he served until 2008. Prior to On2, Joll served as Vice President of Marketing for Real Networks, one of the first companies to focus on the management and sharing of digital media. At Real Networks he conceptualized and launched OnlineTV, a new product for both Mobile and Broadband service providers. From June of 2000 through April of 2005, Joll served as President and Chief Executive Officer of a number of successive start-ups,

including Maple Optical Systems, Maple Networks, and Threshold Networks. Before that he held numerous executive positions at Nortel Networks during his 18-year tenure at the company, including President of Marketing for Europe, General Manager of Carrier Product Lines, and Head of Product Management in Asia and Latin America. Joll holds a B.S. and an M.S. in Electrical Engineering from the University of Manitoba. He serves as Member of Advisory Board of Azla Advisors.

Eric Kaler
President
University of Minnesota

Eric W. Kaler became the 16th president of the University of Minnesota on July 1, 2011. Dr. Kaler is only the second alumnus to rise to the University's presidency. He received his Ph.D. from the University's Department of Chemical Engineering and Materials Science in 1982. He went on to become one of the nation's foremost experts on "complex fluids," which are used in many applications, including drug delivery, the biotech industry, food processing, and the manufacturing of coatings and paints. Before coming to the 'U,' Kaler served from 2007 to 2011 as provost and senior vice president for academic affairs at Stony Brook University in Stony Brook, N.Y. He also was Stony Brook's vice president for Brookhaven National Laboratory affairs. Previous to his time at Stony Brook, Kaler was a member of the faculty at the University of Delaware from 1989-2007. He served there as chair of the Chemical Engineering Department from 1996 to 2000 and then as dean of the College of Engineering from 2000 to 2007. He was an assistant professor and an associate professor of chemical engineering at the University of Washington from 1982 to 1989. Kaler has received many awards and recognitions for his research, including election to the National Academy of Engineering in 2010.

Gopal Khanna
Cyber Security Summit Chair
Senior Fellow, Technological Leadership Institute,
University of Minnesota

Gopal Khanna is a Senior Fellow at the Technological Leadership Institute at the University of Minnesota. From 2002 thru 2010, he held senior positions in federal and state government - most recently as Minnesota's first State CIO in the administration of Governor Tim Pawlenty, and before that as the CIO and CFO of the United States Peace Corps in the administration of President George W. Bush. Prior to his service in government, Khanna was in the private sector where he held several corporate management positions and led start-up technology solutions/consulting firms. Most recently, Khanna served as the Lead Co-Chair for the Commission on Service Innovation, chartered to provide recommendations on how to restructure and improve the overall delivery of services to citizens. Additionally, Khanna is Chairman of The Khanna Group LLC, President of TiE - Minnesota, serves on advisory boards of early stage technology companies, and is a founder of a start-up venture in Minnesota.

Mac Lewis
CEO
FieldSolutions, Inc.

Mr. Lewis is founder and CEO of FieldSolutions, which provides on-line management tools and technician database for variable cost and high quality field service. FieldSolutions' 'direct-to-tech' network of more than 27,000 independent contractors offers comprehensive, low-cost services for global technology and service companies including electronics manufacturers, resellers, and service providers for all areas of the U.S., Canada, and Mexico. Mr. Lewis currently serves on boards of several private companies and organizations, including the St. Thomas University Engineering School and MN High Technology Association (MHTA), as well as being active in support of the Guthrie Theater. In the 1990s he was on the Board of the American Electronics Association (AEA), including roles as Chair of AEA's National Competitiveness Committee. He has also served as a prior Chairman of the Minnesota Council of Growing Companies. Mr. Lewis received his BSEE degree from Princeton University.

Renee Lopez-Pineda
General Manager, IT
Delta Air Lines, Inc.

Renee Lopez-Pineda is an Information Security General Manager at Delta Air Lines. Her 27-year airline career began in Information Technology as a programmer for Northwest Airlines, where she subsequently held various roles of increasing responsibility, leading teams in application development, data services, application design specialists, and wintel servers. Renee joined Northwest's senior leadership team in 2006. With the Delta and Northwest merger, she now has both Minneapolis and Atlanta-based team members focusing on policy, compliance, identity and access management, security incident response, forensics and investigations, privacy, and disaster recovery. Renee is a graduate of Minnesota State University, Mankato and is an active member of the Minneapolis CISO Executive steering committee, a co-chair of the Minnesota CSO Executive board, and a member of TAG (Technology Association of Georgia).

SPEAKERS

Tina Meier
Keynote Speaker
Executive Director
Megan Meier Foundation

On October 16, 2006, Tina Meier's life took a devastating turn when her 13 year old daughter, Megan Taylor Meier, took her own life after being cyberbullyed by her adult neighbor. In December of 2007, Tina Meier founded the non-profit Megan Meier Foundation. The foundation's mission is to 'Bring awareness, education, and promote positive change to children, parents, and educators in response to the ongoing bullying and cyberbullying in our children's daily environment." Tina travels throughout the country to make a difference by speaking to the importance of Internet safety through Megan's story.

Dwayne Melançon, CISA, ITIL
Chief Technology Officer
Tripwire, Inc.

Dwayne Melançon owns a critical role in driving and evangelizing the company's global overall product strategy. He brings over 25 years of security software experience, and is responsible for leading the company's long-term product strategy to meet the evolving data security needs of global enterprises. Mr. Melançon has worked with the IT Process Institute on its research of best practices, numerous corporations around the world on IT service management improvement, and with the Institute of Internal Auditors in its pursuit of Generally Accepted IT Principles. Prior to joining Tripwire, Dwayne was VP of Operations for DirectWeb, Inc., where he was responsible for product management, logistics, electronic supplier integration, customer support, information systems, infrastructure development, and other business operations. Before DirectWeb, he ran Pan-European Support for Symantec Corporation. Prior to joining Symantec, Dwayne spent eight years at Fifth Generation Systems, Inc., where he created an award-winning global support organization. Mr. Melançon is a member of the Information Systems Audit and Control Association (ISACA) and IT Service Management Forum (ITSMF).

Jason Newman, CISA, CISSP
Senior Manager, Security and Privacy Services
Deloitte & Touche LLP

Jason Newman is a security and privacy services practitioner at Deloitte & Touche LLP with more than 15 years of information security and project leadership experience in systems and network security, security architectures, and security/privacy assessments and implementations. He has managed the implementation of information security technologies to meet compliance requirements and enhance operating efficiencies. Jason has also addressed numerous groups on the topics of ecommerce security, information systems security assessment, data protection, security architecture and security and privacy compliance.

Dave Notch
Former Chief Information Security Officer (CISO)
Thomson Reuters

Dave has held a number of senior positions in security, architecture, and engineering during his 20 years in the technology industry. Most recently and for the past six years, he served as Thomson Reuters Chief Information Security Officer where he was responsible for managing the corporate programs for information security, business continuity, disaster recovery, and technology-related audit and compliance activities. Dave holds a Master's degree in Computer and Information Science from the University of Minnesota, Institute of Technology and provides leadership in a number of industry and advisory organizations.

Carolyn Parnell
Chief Information Officer (CIO)
State of Minnesota

Carolyn Parnell was appointed Minnesota State Chief Information Officer by Governor Mark Dayton on Feb. 1, 2011. As State CIO, Parnell will oversee OET's delivery of services that improve government through the effective use of information technology. Parnell has led the following technology organizations as Chief Operating Officer for Information Technology Services for Minnesota State Colleges & Universities (MnSCU), Director of Information Technology at Minnesota Public Radio/American Public Media, Director of Networks and Data Centers at Fidelity National Information Systems, and Director of Networking and Telecommunications Services at the University of Minnesota. Previously, Parnell worked as a child protection social worker. Parnell earned a B.A. at the University of Minnesota, Morris, in Sociology and Liberal Arts for the Human Services and an MBA from the Carlson School of Management at the University of Minnesota.

SPEAKERS

William Pelgrin
Keynote Speaker
President and CEO, Center for Internet Security
Founder and Chair, Multi-State Information Sharing and Analysis Center (MS-ISAC)

Mr. William Pelgrin is the President and Chief Executive Officer of the Center for Internet Security (CIS). The Center for Internet Security is a not-for-profit organization whose mission is to enhance the cyber security readiness and response of public and private sector entities, with a commitment to excellence through collaboration. CIS has responsibility for the operation of the Multi-State ISAC to provide critical cyber security services for state, local, tribal, and territorial (SLTT) governments; development and distribution of benchmarks that establish standards for the secure configuration of information technology systems; and the coordination of aggregate purchasing opportunities for SLTT governments and related non-profits to provide broad access to top quality cyber security solutions. Mr. Pelgrin established the Multi-State Information Sharing and Analysis Center (MS-ISAC) in January 2003 in recognition of the need for collaboration across states to better prevent, detect, respond to, and recover from cyber incidents. The MS-ISAC has representation from all 50 states, the District of Columbia, local governments, and US Territories and serves as a collaborative mechanism to share information regarding cyber security issues. Because of the success of the MS-ISAC, the US Department of Homeland Security has recognized the MS-ISAC for its proactive role in coordinating state and local government cyber readiness and response.

Avinash Prasad
General Manager, Enterprise Security Solutions
Wipro

In his current role, Avinash heads the practice and business area of Infrastructure and Managed Security Services. He has a multi-functional focus on business development, customer management, practice and solution development, team and competency support, and technical solution delivery. Prior to this role, Avinash led the Presales, Alliances and Hosted Security services for Wipro ESS. Also, he has led the creation and building of a practice in Security engineering services and Data Security. Avinash has over 16 years of industry experience, of which ten years are in IT Security. Avinash has been with Wipro since 1996. Avinash has a B. Tech from IIT, Delhi in Textile Technology and an MBA from XLRI, Jamshedpur in Marketing and Finance.

Fayyaz Rajpari, CISSP, CCSK, GCIH, GCFW, ITIL, MCSE
Core Security Architect
Symantec Corporation

Fayyaz Rajpari is a Security Architect for Symantec Corporation. Fayyaz is integral to the north central territory for Symantec's core security solutions. He is a technology enthusiast with 15 years of Information Technology experience. The last ten years he has devoted his career to all things security. He's had a variety of roles with deep experience within many security domains, including network and endpoint security, encryption, identity and access management, and vulnerability management. His current responsibilities include providing information security knowledge and technical insight on all Symantec security solutions for enterprise and large enterprise corporations. Fayyaz takes pride on staying on top of the latest threat trends and is responsible for internal updates to information security topics and Symantec security solutions. Outside of his fast paced life at Symantec, Fayyaz Rajpari is a part time Information Security Instructor at Oakton Community College. He holds a Bachelor's degree in Information Security from Westwood College.

SPEAKERS

Patrick C. Reidy , CISSP
Keynote Speaker
Chief Information Security Officer (CISO)
Federal Bureau of Investigation (FBI)

Patrick Reidy is the Chief Information Security Officer at the Federal Bureau of Investigation. During his 16-year career in information assurance he has worked in both the private and public sectors. He has worked in several aspects of information assurance to include systems penetration, incident response, threat analytics, and data security. Over his professional career he has been involved in the investigation, analysis, and mitigation of hundreds of computer intrusion incidents. During his time with the FBI, Mr. Reidy led the development of the FBI's information assurance and advanced cyber adversary protection programs. Mr. Reidy holds a Masters in Information Assurance from Eastern Michigan University and a Masters of Science in Strategic Intelligence from the National Intelligence University.

James Ryan, MSEE, CEA, PMP
Managing Partner
Litmus Logic, LLC

James is a cyber defense practitioner and author with over 15 years of experience delivering transformational business results for US federal agencies and critical infrastructure companies. In 2008, James worked with NASA, HP/EDS, TSCP, and others to define game-changing identity and credential management strategies — then pioneered the first implementations for early adopters. These strategies have evolved into Personal Identity Verification Interoperability (PIV-I) and the Identity, Credential, and Access Management (ICAM) Segment Architecture. James holds a MSEE from Virginia Tech.

Nick Selby
Police Officer and Managing Director
N4Struct, Inc.

Nick Selby was sworn in as a police officer in 2010. He has been an information security analyst and consultant for more than ten years and has worked in physical security and intelligence consulting in various roles since 1993. In 2005 he established the information security practice at industry analyst firm The 451 Group and from 2006-2011 served on the faculty of IANS Research. Since 2008 he has focused on law enforcement intelligence. He is a partner in N4Struct, which provides cyber incident response to Fortune 500 companies.

James Sheire
Senior Advisor
National Institute of Standards and Technology (NSTIC), United States Department of Commerce

A key Obama Administration cyber security initiative, the National Strategy for Trusted Identities in Cyberspace (NSTIC) charts a course for the public and private sectors to collaborate to raise the level of trust associated with the identities of individuals, organizations, networks, services, and devices involved in online transactions. As a member of the NSTIC national program office in Washington, D.C., Jim manages strategic alliances with NSTIC stakeholders and serves as chief evangelist in outreach programs and communications. Jim draws on over 15 years of policy and business experience, previously serving as an aide to Senator Ron Wyden (D-OR), a policy specialist for Philips Electronics, and most recently in business development and communications for NXP Semiconductors, a leading cyber security and identity management technology provider.

SPEAKERS

Mikko Varpiola
Keynote Speaker
Co-Founder and Test Suite Developer #1
Codenomicon, Ltd.

Mikko is an expert in anomaly design, security vulnerability discovery, and unknown vulnerability management. He is a world-renowned expert on how to make software/firmware/hardware fail. Before founding Codenomicon, Mikko was a key researcher at a globally recognized security research group, Oulu University Secure Programming Group (OUSPG). He actively participates in the development of secure programming practices and automation of software security testing. His contributions are integral to the development of practical implementations of generation-based fuzz testing software. Recently Mikko has focused his efforts on Codenomicon's Fuzz-o-Matic Testing-as-a-Service (TaaS) platform and on research into testing instrumentation to reliably detect vulnerabilities in real-time.

Mark Weatherford, CISSP, CISM
Keynote Speaker
Deputy Under Secretary for Cybersecurity
National Protection and Programs Directorate (NPPD),
Department of Homeland Security

Mark Weatherford is the Deputy Under Secretary for Cybersecurity for the National Protection and Programs Directorate (NPPD), a position that will allow DHS NPPD to create a safe, secure, and resilient cyberspace. Weatherford has a wealth of experience in information technology and cybersecurity at the Federal, State, and private sector levels. Weatherford was previously the Vice President and Chief Security Officer of the North American Electric Reliability Corporation (NERC), where he directed the cybersecurity and critical infrastructure protection program. Before NERC, Weatherford was with the State of California, where he was appointed as the state's first Chief Information Security Officer. Prior to California, he served as the first Chief Information Security Officer for the State of Colorado. Previously, as a member of the Raytheon Company, he successfully built and directed the Navy/Marine Corps Intranet Security Operations Center (SOC) in San Diego, California and was also part of a team conducting security certification and accreditation with the U.S. Missile Defense Agency. A former U.S. Navy Cryptologic Officer, Weatherford led the U.S. Navy's Computer Network Defense operations and the Naval Computer Incident Response Team (NAVCIRT). Weatherford earned a bachelor's degree from the University of Arizona and a master's degree from the Naval Postgraduate School. He was awarded SC Magazine's prestigious "CSO of the Year" award for 2010 and named one of the 10 Most Influential People in Government Information Security for 2012 by GovInfo Security.

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Jim Wolford - CEO, Atomic Data

Navigating through the clouds

A brief guide to your virtualization options.

Moving part or all of your business to the cloud can be a daunting, often confusing endeavor. Though the benefits of virtualization, commonly referred to as cloud computing, are well known (higher availability, lower operating costs, etc.), your company's path towards a cloud based solution isn't quite as certain. Thankfully, due to the proliferation of advanced data center hardware, increased bandwidth, and virtualization software, there are more cloud solutions now than ever before.

We'll divide today's virtualization solutions into three categories: public, private, and hybrid clouds.

Some well known public clouds include Amazon's Elastic Compute Cloud (EC2), Microsoft's Azure Cloud, and Google's Cloud Platform. These public clouds can offer significant capital and operational savings with their utility and usage-based pricing models. Although economically appealing, the public cloud isn't for everyone. In the public cloud, two of your virtual servers may reside in data centers thousands of miles apart. This can create latency issues, resulting in suboptimal performance. For those with web servers relying on database back-ends, this can mean higher load times and more financial risk. Other drawbacks of the public cloud can include poorly managed security, limited data recovery options during an outage, and the lack of backend control. Also, the public cloud provider typically determines the hardware your servers run on.

For those with more complex compliance, customization, management, and uptime needs, the private cloud can fill these gaps left by the public cloud. Atomic Data leverages our fully managed infrastructure (F5 load balancers, Cisco switching, NetApp storage, enterprise WAN, and VMWare platform) to provide clients with a shared or dedicated private cloud in our SAS 70 Type II/SOC 2 Type II certified data centers. Atomic Data's highly redundant and highly available architecture alleviates the risks from natural disasters, system crashes, and increased loads. Atomic Data's systems are designed from the ground up for automatic failover to keep your business running if disasters do occur. Additionally, tape backup and server snapshots help ensure your data will never be lost. Combined with our highly knowledgeable certified engineers, an intense focus on security, and state of the industry infrastructure in data centers around the world, an Atomic Data private cloud will exceed your expectations and scale to meet your changing business needs.

Finally, we have the hybrid cloud. This solution is ideal for companies with non-critical applications or platforms that can reside in the lower cost public clouds, but also require the security and control of the private cloud. The two are typically bound together with an added level of redundancy the public cloud may not always offer. If you have an existing private cloud and are looking to leverage the capacities of the public cloud, a hybrid solution may be what you're looking for.

No matter which option you choose, Atomic Data's experienced team of platform engineers and enterprise architects will be there to design, implement, and manage your transition to the cloud. Want to learn more about your path through the clouds? Visit AtomicData.com or contact one of our knowledgeable sales consultants by calling 612-466-2000 or emailing sales@atomicdata.com.

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PRE-SUMMIT VIP RECEPTION

The Honorable Howard A. Schmidt, CISSP, CSSLP
Former Special Assistant to the President and Cyber Security Coordinator

Cyber Security Summit 2012 commenced with the Honorable Howard Schmidt, former Special Assistant to the President and Cyber Security Coordinator. Mr. Schmidt provided insights on interagency cyber security policy development and implementation for the US Government and coordinating engagement with federal, state, local, international, and private sector cyber security partners. He outlined the challenges and barriers that the US must navigate in the current state of cyber space, as well why a State driven 'Cyber Security Eco-System" is needed to help formulate the future national strategy and technical, policy, and legislative solutions needed to secure the nation from cyber security attacks.

TUESDAY, OCTOBER 9, 2012: CYBER THREAT IDENTIFICATION

7:30 – 8:00 a.m.	Registration + Networking Breakfast in the Exhibit Hall
8:00 – 8:30 a.m.	**Welcome + Introduction**
Gopal Khanna, *Cyber Security Summit Chair; Senior Fellow, Technological Leadership Institute, University of Minnesota* **Dr. Massoud Amin,** *Director, Technological Leadership Institute, University of Minnesota*	The second annual Cyber Security Summit will kick-off with Gopal Khanna, Chair of Cyber Security Summit 2012, welcoming all the participants to this groundbreaking event. Mr. Khanna will highlight the Summit's vision to create a multi-stakeholder consortium for cyber security that will bring together leaders from business; state, local, and federal government; and citizens at large to address cyber threats. Dr. Massoud Amin will follow, synthesizing the essence of topics and associated learning opportunities provided over the two-day event. Dr. Amin will also provide a thumbnail view of the impact of cyber disruption on the state's critical infrastructure, particularly the electrical grids, so that we can keep in mind threats to all of us as we discuss, collaborate, and envision defense structures needed to secure our interests in the digital age we live in.
8:30 – 9:30 a.m.	**Opening Keynote: Cyber Threat Identification – Framing the Issue**
Mikko Varpiola, *Co-Founder and Test Suite Developer #1, Codenomicon, Ltd.*	Day one of Cyber Security Summit 2012 derives its name from this important topic. In this session, attendees will hear about the current state of identification of cyber security threats in both the private and public sectors. Both sector's capabilities of detection, minimization, and prevention of digital intrusions will be evaluated. This presentation is designed to frame the issue for the audience, presenting a broad view of the strengths and limitations of our current understanding of cyber security and potential approaches that can bring all the stakeholders to the table for constructing solutions.
9:30 – 10:15 a.m.	**Future Opportunities in Cyber Security**
Fayyaz Rajpari, CISSP, CCSK, GCIH, GCSW, ITIL, MCSE, *Core Security Architect, Symantec Corporation* **Andrew Borene, Esq.,** *Executive Director, Robotics Alley™*	It is a well-accepted reality that security threats are becoming increasingly complex and challenging to manage. As a result, strategic importance of securing data and information requires thinking outside the box. Among others, we need to learn more about threat landscapes, including Advanced Persistent Threats (APT); what challenges we can anticipate; and opportunities for innovation and new solutions. While we are looking at best practices, a compelling need exists to also look at technologies like robotics, hardware designs, software applications, etc.
10:15 – 11:30 a.m.	**Networking Break in Exhibit Hall**

AGENDA

11:30 a.m. – 12:30 p.m.	Luncheon Keynote: Protecting our Children
Tina Meier, *Executive Director, The Megan Meier Foundation*	This segment brings the rhetoric and theory of cyber security to the personal and emotional level. Tina Meier, founder of the Megan Meier Foundation, has experienced first-hand the tragedies of an unrestricted and unprotected cyber space. On October 16, 2006, Tina Meier's 13-year-old daughter Megan Taylor Meier took her own life after being cyberbullied. Tina has since traveled throughout the United States sharing Megan's story, with the intent of raising awareness for internet safety and helping one child at a time until bullying and cyberbullying are non-existent. Her presentation seeks to 'bring awareness, education and promote positive change to children, parents, and educators in response to the ongoing bullying and cyberbullying in our children's daily environment."
12:30 – 12:45 p.m.	**2012 Kids Stay Safe Online Cyber Security Poster Award Presentation**
Carolyn Parnell, *CIO, State of Minnesota*	The 2012 Kids Safe Online Poster Contest is an annual contest presented by the Multi-State Information Sharing and Analysis Center (MS-ISAC). It encourages young people to share with their peers, through messages and images, the importance of staying safe online by using the internet safely and securely. 850 students from 12 states and one U.S. Territory participated in the contest in 2012. Carolyn Parnell, CIO, State of Minnesota will be honoring the 2012 winner.
12:45 – 1:30 p.m.	**Networking Break in Exhibit Hall**
1:30 – 3:00 p.m.	**Panel Discussion: Research to Reality**
Moderator **Eric Kaler,** *President, University of Minnesota* ***Panelists*** **Brian Isle, PE,** *General Manager, Adventium Labs; Senior Fellow, Technological Leadership Institute, University of Minnesota* **Bill Joll,** *President and CEO, ISC8* **Mac Lewis,** *CEO, FieldSolutions, Inc.*	Cyber security is projected to be the fastest growing segment of the IT sector. This session seeks to address challenges and barriers that all companies, from startups to major corporations, face today in leveraging this growth. 'Research to Reality" will focus on capturing the theoretical frameworks regarding cyber security and creating successful market products and solutions. The panel will address challenges as well as opportunities for business-minded researchers from idea, startup, seed money, and development of a cyber security business product. A Q&A session will follow, allowing for engagement from the audience. **Sponsored by** UNISYS
3:00 – 3:20 p.m.	**Panelist Q&A**
3:20 – 4:30 p.m.	**Closing Keynote: The FBI Approach to Cybersecurity**
Introduction by **Avinash Prasad,** *General Manager, Enterprise Security Solutions, Wipro* **Patrick Reidy, CISSP,** *CISO Federal Bureau of Investigation (FBI)*	Hacktivists, BYOD, spies, legal regulations, Generation Y/Millennials, APT, cloud services, and Anonymous are just some of the daily headaches that the FBI and other government organizations are struggling with in the cyber security arena. The FBI is faced with several challenges unique to law enforcement, such as the need to conduct investigations and support national intelligence while protecting data integrity. In this session, Mr. Reidy will share real-world examples of the how the world's premier law enforcement agency is solving their cyber security challenges. He will outline the enormity of the current threats to the FBI by reviewing and providing details of the techniques being used to combat these threats. Mr. Reidy will also discuss how the FBI is reinventing its cyber security program by being intelligence driven, threat focused, and data centric in the face of rapidly shifting technology and employee base. **Sponsored by** WIPRO Applying Thought
4:30 – 6:00 p.m.	**Closing Reception in Exhibit Hall**

WEDNESDAY, OCTOBER 10, 2012: INFORMATION SHARING + PRIVACY

7:30 – 8:00 a.m.	Registration + Networking Breakfast in the Exhibit Hall
8:00 – 9:00 a.m.	**Opening Keynote: Security Intelligence Sharing**
William Pelgrin, *President and CEO, Center for Internet Security; Founder and Chair, MS-ISAC*	This opening Keynote focuses on a topic which has been highly debated among policy makers. Representing information sharing between the government and private sector on cyber threats and federal compliance standards is William Pelgrin, Chair of the Multi-State Information Sharing and Analysis Center (MS-ISAC). Mr. Pelgrin will discuss the strategic value of collaboration and information sharing and how this collaboration between and among the nation's state, local, territorial governments, with the traditional intel community is strengthening our collective cyber security readiness and response posture.
9:00 – 10:00 a.m.	**Beyond US – Intelligence Sharing**
Nick Selby, *Police Officer and Managing Director, N4Struct, Inc.*	Organizations large and small find themselves deluged by data, and at the same time, cultural, technical, and business practices have not changed to enable them to leverage the data they have. This practical and pragmatic talk will discuss data sharing techniques, tactics, and procedures that empower organizations to get the most out of what data they have, and find new sources of it, to enable them to turn their data to information and their information to knowledge. Presenting this topic will be Nick Selby, a police officer who consults some of the largest police agencies on intelligence, and the managing director of N4Struct, Inc., a cyber security consulting firm providing cyber incident response services to Fortune 500 companies. Mr. Selby's experience as an information security analyst spans more than ten years and includes the establishment of the information security practice at industry analyst firm The 451 Group, and a faculty position on IANS research. His outlook on international cyber security will provide the audience a unique global perspective on worldwide threat assessment.
10:00 – 10:25 a.m.	**Networking Break in Exhibit Hall**
10:25 – 11:40 a.m.	**Panel Discussion: Trust in the Cloud – NSTIC and the Identity Ecosystem**
Moderator **Christopher Buse, CPA, CISA, CISSP,** *CISO, State of Minnesota* ***Panelists*** **Ian Glazer,** *Research VP and Agenda Manager, Gartner* **James Ryan, MSEE, CEA, PMP,** *Managing Partner, Litmus Logic, LLC* **James Sheire,** *Senior Advisor, National Strategy for Trusted Identities in Cyberspace (NSTIC), United States Department of Commerce*	The National Strategy for Trusted Identities in Cyberspace (NSTIC) is a White House initiative calling for the private sector to collaborate on the creation of an 'Identity Ecosystem" where individuals can choose from multiple identity providers and digital credentials for more convenient, secure, and privacy-enhancing transactions anywhere online. NSTIC implementation has now shifted into high gear, with the launch of the privately-led Identity Ecosystem Steering Group in August, as well as the award of more than $10 million in pilots. Panelists will lay out the case for tackling cloud identity via a public-private partnership and detail the ways in which you and your organizations can and should participate in the coming months, including how to leverage the funded pilot projects that offer innovation and best practices in the Identity Ecosystem. **Sponsored by** Deloitte.

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11:40 a.m. – 12:25 p.m.	Networking Break in Exhibit Hall
12:25 – 1:10 p.m.	**Lunch**
1:10 – 2:40 p.m.	**Panel Discussion: The Fortune 500 Perspective – How Companies Manage Sharing**
Moderator **Gary Eppinger, CISA, MBB/QA,** *CISO, VP of IT Security, Real Estate, Market Development, Legal, and Pharmacy Services, SUPERVALU Foods, Inc.* ***Panelists*** **Bill Aerts, CISSP, CISM,** *Director, Information Risk Mangement, Medtronic* **Wade Baker,** *Director, Research and Intelligence, Verizon Business* **Renee Lopez-Pineda,** *General Manager, IT, Delta Air Lines, Inc.* **Dwayne Melançon, CISA, ITIL,** *CTO, Tripwire, Inc.* **Dave Notch,** *Former CISO, Thomson Reuters*	This panel, consisting of leading Twin Cities CISOs of major companies, will discuss challenges major companies are facing and strategies on how data sharing can help in building strategies to develop industry solutions. Minnesota is home to 19 Fortune 500 companies, and the Twin Cities Metropolitan Area is a major economic hub. These companies enjoy a large national presence as well as an international reach. With this large footprint come cyber security vulnerabilities to a wide array of threats. Audiences will gain unique insights of how large private sector actors have been pioneering information sharing behind the scenes, a topic seldom addressed publicly.
2:40 – 3:10 p.m.	**Refreshment Break**
3:10 – 4:20 p.m.	**Closing Keynote: Creating a Safe, Secure, and Resilient Cyberspace**
Mark Weatherford, CISSP, CISM, *Deputy Under Secretary for Cybersecurity, National Protection and Programs Directorate (NPPD), Department of Homeland Security*	Cyber Security Summit 2012 will close with a Keynote Address by Mark Weatherford, Deputy Undersecretary for the National Protection and Programs Directorate (NPPD). Mr. Weatherford will provide a unique insight on current federal initiatives and strategies to create a safe, secure, and resilient cyberspace. His presentation will showcase his wealth of experience in managing information technology and cyber security at the Federal, state, local, and private sector levels. The closing keynote will culminate the Cyber Security Summit 2012 by reiterating the scope of cooperation of the government, private sector, and citizens to protect our digital future and the need for building a 'Cyber Security Eco-System" in Minnesota, as envisioned by the organizers of the 2012 Cyber Security Summit.
4:20 – 4:40 p.m.	**Summit Wrap-Up**
Gopal Khanna, *Chair, Cyber Security Summit 2012; Senior Fellow, Technological Leadership Institute, University of Minnesota*	Cyber Security Summit 2012 will wrap-up with Gopal Khanna, Chair of the Cyber Security Summit, synthesizing all the relevant topics and issues discussed over the two-day event, stressing the need for a bottom up, localized strategy in dealing with cyber threats and response mechanisms.

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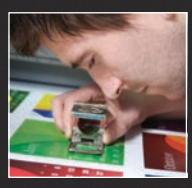

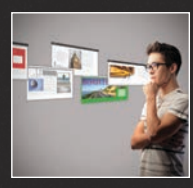

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Technological Leadership Institute Director Envisions the Smart Grid

Dr. Massoud Amin is director of the University of Minnesota's Technological Leadership Institute, an organization dedicated to forming connections between engineering, science, business and technology. Amin, a professor of electrical and computer engineering, recently was listed as a mover and a shaker in the smart grid industry by GreenTech Media. He is also chairman of the IEEE Smart Grid Newsletter. In an interview, Amin discusses the smart grid with Government Technology.

How do you envision the smart grid in the next 10 years?

Scenarios for a smart grid vary wildly. But a common understanding [is] that in the coming years, electricity will play a much greater role in global society. It is entirely possible that nations, regions and cities that best implement new strategies and infrastructure could reshuffle the world pecking order. It's very possible that emerging markets could leapfrog other nations in smart grid markets and deployment.

Global drivers for smart grid development and deployments are multifaceted, and there are no cookie-cutter solutions. The drivers are often created by local, regional and/or national priorities, and drivers for advanced economies can differ from those of developing ones. Motivations are also influenced by a variety of factors in the larger macrosystem, such as standards, technologies and policies.

What does it mean to have a sustainable smart grid?

How can we have one? Smart grids have the potential to substantially reduce energy consumption and CO2 emissions. In fact CO2 emissions alone could be reduced by 58 percent in 2030, compared to 2005 emissions.

Microgrids that localities build to serve campuses, communities and cities will contribute to smart grid sustainable benefits. Microgrids are wonderful examples of the "think globally, act locally" principle. They draw their energy from locally available, preferably renewable resources. They use smart grid technologies to continually monitor customer demand, and they offer innovative pricing and other programs to manage the load and encourage customers to conserve energy. The microgrid ships any excess capacity back into the grid.

Why is it important for states and localities to build a smart grid infrastructure?

I've mentioned the overloaded grid conditions we have today. Yet the situation is certain to get much worse, especially with the increasingly digital society. Twitter alone puts a demand of 2,500 megawatt hours per week on the grid that didn't exist before. Because of increasing demand, experts believe that the world's electricity supply will need to triple by 2050.

Does the smart grid need to have a self-healing infrastructure?

It needs a self-healing infrastructure to ensure that [the] power grid can continue to operate reliably for businesses and consumers who depend on it. A smart grid that is overlaid with the various sensors, communications, automation and control features that allow it to deal with unforeseen events and minimize their impacts will be resilient and secure. Not only can a self-healing grid avoid or minimize blackouts and associated costs, it can minimize the impacts of deliberate attempts by terrorists or others to sabotage the power grid.

Article written by Karen Stewartson

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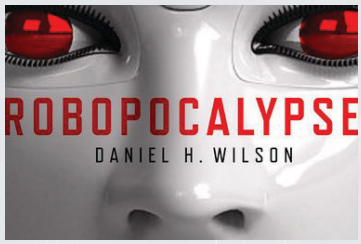

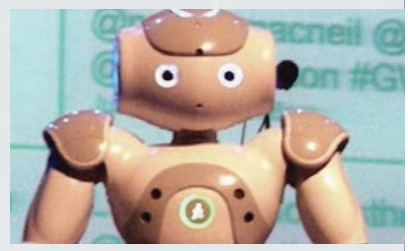

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Cyber Security – "Know what you don't know" about what is happening in your network

Avinash Prasad
General Manager
Enterprise Security Solutions, Wipro

As the frontiers of cyber security keep expanding for the connected enterprises of today, certain facts are worth noticing about the challenges posed by the currently prevalent threats. For example, the new kind of attacks like 'Advanced evasion techniques' have raised the bar on the need for gathering real-time intelligence and threat mapping in the network. As an instance, 85% of breaches took weeks or more to discover in 2012* and only 2% of all organizations detected their breach in an internal pro-active manner. Larger organizations fared slightly better with 16%.*

Hence while the need for visibility and cogent analytics for 'events of interest' is increasing, the challenge is to build a technology solution and operations framework which shows you the extent of these enterprise 'blind spots". This point of view brings out the value of what we have called 'Know what you don't know" in a security context. This is as much about the security visibility of the underbelly of your network and systems as it is about developing more cognizance in an incremental manner about the unknowns across your network.

In more practical terms, SIEM (Security information and event management) developed as an excellent solution for the enterprise security teams to identify majority of the known threat patterns in near real-time. This in turn helped develop a more-correlated security perspective through information gathering and analysis from disparate sources. However, SIEM is now seen as in-efficient to determine the unknown threat patterns or what it doesn't know. The SIEM approach is that of using a data reduction model where only data relevant to the defined use-cases is pumped into the engine; there were performance issues also in handling large data volumes.

But fundamentally, since prevention is better than cure; there is a need felt to better understand the gaps and unknowns in the security and model defense model, which can help to focus efforts on these areas. The question arises, how do we improve our chances of detecting a breach at an early stage? Certain thoughts are presented below as samples.

Based on the information being gathered through engines like SIEM Intelligent reporting and reviews of these reports by knowledgeable domain experts can facilitate early breach detection and reduce the area of unknowns for a regular L1 security analyst.

However, infrastructure, user and data base lining can make security analytics much sharper e.g. identification of critical infrastructure to be protected; gathering supporting information around these like user profile and privileges, data sensitivity and classification etc. To get accurate security posture information, there is a need to look at more such sources of security information and examine each source in-depth. Feeding the same into security reports supported by expert analysis and additional context can help derive more intelligence to drive security decisions and actions.

These views also tie in directly to the key pillars of the 'Big Data' phenomenon, namely the existence of large data sets of highly diverse data types, from which key insights may be quickly gleaned. This can lead security organizations directly into the opportunity of Big Data utilization now. Building such intelligent reports can be the baby steps towards implementing a comprehensive Security Analytics solution. These are some of the aspects involved in building the knowledge about the 'unknowns' and reduce that gray zone in the security environment.

** 2012 Data Breach Investigations Report — Verizon Business Systems*
By Avinash Prasad, General Manager, Enterprise Security Solutions, Wipro

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