

FIFTH ANNUAL EVENT




**Cyber security is an everybody issue.**



# CYBER SECURITY SUMMIT 2015

October 20 - 21 | Minneapolis Marriott Northwest



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## QUESTIONS?

Call 763.548.1313 or go to  
[www.CyberSecuritySummit.org](http://www.CyberSecuritySummit.org)

# WELCOME

## STAY CONNECTED



We encourage all attendees to share their thoughts and feedback throughout the Summit on Twitter, using the hashtag **#CSS2015MN**



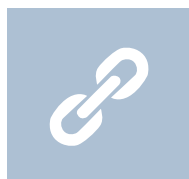
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# ME

## THANK YOU FOR PARTICIPATING IN THE FIFTH ANNUAL CYBER SECURITY SUMMIT!



Welcome to the Fifth Annual Cyber Security Summit. Whether this is the first time you have attended this summit or the fifth, thank you for joining us to discuss cyber security challenges, policy and – most critically – real world solutions.

Cyber security is an issue that affects us on many levels: It touches our personal lives, our businesses and our government institutions. That's the reason we said last year that addressing the challenge requires public-private partnerships for cooperation and communication.

Our goal has been to illustrate that collaborative philosophy with each year of this summit, and we are proud that this year's program was built with support from local officials in our host state of Minnesota, federal officials from Washington DC, and corporate leaders from companies both large and small.

As evidence of the collective success you have driven, this summit was cited as a model of positive public-private collaboration at a meeting of the Council of Governors earlier this year.

Our 2015 agenda will walk through what's happened in the year since we last met and set the stage for what we hope to achieve together in the future. We will discuss how cyber security is being dealt with on a national level, through executive orders and other legislation, and spell out the differences between cyber security and cyber warfare. The rest of the agenda is equally impressive. We encourage you to learn more about our impressive lineup of speakers in the following pages.

We hope you will be able to join us for many of this year's Cyber Security Summit sessions and add your voice to the conversation. We've made sure "cyber security is an everybody issue," and we thank you for joining us to tackle the challenge together.

**ANDREW BORENE**  
2015 Chair

**EILEEN MANNING**  
Executive Producer



## Visionary Leader Award 2015

Special thanks to founding Advisory Board member, Dr. Massoud Amin. His dedication and continuous support was instrumental to establish and grow this important Summit.

**Dr. Massoud Amin,**  
*Chairman, IEEE Smart Grid;  
Chairman, Board of Directors,  
Texas Reliability Entity; Director,  
Board of Directors, Midwest  
Reliability Organization; Director  
and Professor, Technological  
Leadership Institute and ECE,  
University of Minnesota*

**Cyber attacks.  
Bioterrorism.  
Homeland security.**

**NEW GENERATION  
CHALLENGES NEED  
NEXT GENERATION  
LEADERS**

# Advance Your Career with a Master of Science in Security Technologies

Gain the skills to prevent, protect and respond to today's security demands with a **Master of Science in Security Technologies (MSST) from the University of Minnesota Technological Leadership Institute**. The MSST program includes concentrations in cybersecurity, all 16 critical infrastructures, and applies a real-world approach to addressing emerging threats.

**Get the expertise you need to lead in this growing career field.**

**Attend an information session:**

**Monday, November 9 5:30-7:00 p.m.**

**Monday, December 7 5:30-7:00 p.m.**

**To sign up visit [tli.umn.edu](http://tli.umn.edu) or call 612.624.8826**

## **About the University of Minnesota Technological Leadership Institute**

The Technological Leadership Institute (TLI) was established in 1987 by an endowment from the Honeywell Foundation. Our mission is to develop local and global leaders for technology-intensive enterprises.



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LEADERSHIP INSTITUTE**

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# STEM SCHOLARSHIP WINNERS

Cyber Security Summit is making a commitment to supporting STEM education through our scholarship fund. Congratulations to this year's winners, who will each receive \$2,500 to pursue further education.



## TAMEKA CANNON

Information System, St. Cloud State University

Tameka was born and raised in Minneapolis and graduated from Washburn High School in 2012. During her time at Washburn, she played softball and was welcomed into the National Honor Society. Tameka has also been active in her community as a member of the Leadership Team at Urban Ventures. She continued to volunteer when she could while attending college and working two jobs. Always having been interested in technology, she is graduating in May with a Bachelor of Science degree in Information System with a certificate in Business Intelligence. This past summer, she interned at UnitedHealth Group and was able to apply her knowledge in the field. Upon graduating, she plans to work a year to gain more experience as a Business Analyst or Database Architect before starting her master's degree in Information Assurance.



## VANNECK TIAKO

Computer Science, North Hennepin Community College

Vanneck Tiako is majoring in Computer Science at North Hennepin Community College (NHCC). He plans to graduate with an associate's degree in Science in June of 2016. He then plans to transfer to Metropolitan State University to pursue his education in Computer Science. He has been awarded the June E. Tessman Memorial Endowed Scholarship and the Mathematics Scholarship respectively in 2014 and 2015 at North Hennepin Community College. He is President of the Francophone Student Association at NHCC, which is a club that includes French speakers and people interested in learning French. He is currently a math tutor for the STEM tutoring program at his college.

Administered by:



## SUMMIT HIGHLIGHTS

### NETWORKING RECEPTION

Tuesday, Oct. 20, 4:15 - 5:30pm

Network with your peers at this reception in the Exhibit Area featuring appetizers and a cash bar.

### CLE + CEU CREDITS

This Summit has been approved for Continuing Legal Education credits in Minnesota and Iowa. We can also provide certificates of attendance for other continuing education credits.

### EXHIBIT AREA

Meet with leading companies in the information security space. For a map of the area, see the back of this guide.

### IDEA BOARD

Add your best cyber security ideas to our Idea Board in the Exhibit Area.



### CYBER SECURITY FOR SMALL + MIDDLE MARKETS

Tuesday, Oct. 20, 8:00AM - 1:15PM

This session was designed for businesses that are not big enough to have a CIO or other dedicated in-house resources to manage security strategies. Attendees will walk away with a checklist of things to do after experiencing a cyber issue and a certificate of attendance from the Better Business Bureau. Presenters include representatives from the FBI, NIST, Briggs and Morgan, Occam Group, and Kraus-Anderson Insurance.

For a complete agenda, see page 13.



### CYBER THREAT INTELLIGENCE 101

Tuesday, Oct. 20, 1:30 - 5:00PM

This half-day deep dive is designed for 1st level leaders and managers who have responsibility for IT security. The goal of the session is to provide insight into the cyber threat intelligence operations, an introduction to threat intelligence frameworks, and demonstration of various tools that are used to conduct cyber threat intelligence. Presenters include representatives from Optiv, Cisco Systems, and Juniper Networks.

For a complete agenda, see page 13.

## 2015 ADVISORY BOARD



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Director and Professor,  
Technological  
Leadership Institute  
and ECE, University of  
Minnesota



**Ken Barnhart**,  
President & CEO,  
Occam Group



**Michael Benz**,  
Director, Information  
Technology, Kraus-  
Anderson Construction  
Company



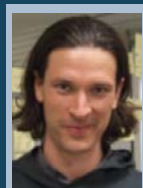
**Andrew Borene**,  
Chair, Cyber Security  
Summit 2015; IBM  
Federal Business  
Leader for i2 Safer  
Planet



**Jim Brzezinski**,  
Region Sales Director,  
Tanium



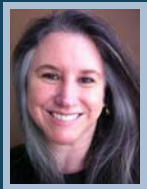
**Chris Buse**,  
Assistant  
Commissioner/CISO,  
MN.IT Services



**Patrick Deegan**,  
CTO, ID3 Chief  
Architect



**Douglas DeGrote**,  
CISO & Director of  
IT Security & Risk  
Management, Xcel  
Energy



**Laura Élan**,  
P.E., Global Service  
Leader – eHealth,  
UL LLC



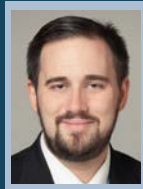
**Vanessa Esaw**,  
Student, University of  
Minnesota; 2014 STEM  
Education Scholarship  
Fund Award Winner



**Steen Fjalstad**,  
MN ISACA President,  
InfraGard Intelligence  
Committee, Midwest  
Reliability Organization  
Security and Mitigation  
Principal



**Ron Fresquez**,  
Industry Partnership  
Chair, Cyber Security  
Summit; CEO/Founder,  
TOSTA Information  
Security Training  
Services



**Matthew Harmon**,  
Managing Principal  
Consultant, IT Risk  
Limited



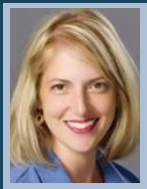
**Joe Holmes**,  
Manager, Asset  
Protection –  
Operations, Best Buy  
Co., Inc; President, ASIS  
Minnesota Chapter



**Col. Stefanie Horvath**,  
Colonel, MN Army  
National Guard



**Brian Isle**,  
Senior Fellow,  
Adventum  
Labs/University  
of Minnesota  
Technological  
Leadership Institute



**Lisa Jemtrud**,  
Foundation Director,  
Better Business  
Bureau of Minnesota  
and North Dakota



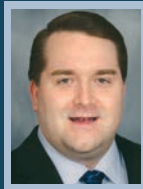
**Mike Johnson**,  
Chief Information  
Security Officer/  
Operations Risk  
Director, Bremer  
Financial Services, Inc.



**Eran Kahana**,  
Attorney, Maslon  
LLP; Research Fellow,  
Stanford Law School;  
General Counsel and  
Member of the Board  
of Directors, InfraGard



**Faisal Kaleem**,  
Associate Professor,  
Metropolitan State  
University



**Michael Kearn**,  
Senior Security  
Architect, U.S. Bank  
Corporation



**David La Belle**,  
Business Systems  
Analyst, US Bancorp  
Asset Management;  
NorSec LLC; Security  
B-Sides MSP



**Chip Laingen**,  
Commander, U.S.  
Navy (Ret.); Executive  
Director, Defense  
Alliance



**Demetrios Lazarikos**,  
IT Security Strategist,  
Blue Lava Consulting,  
LLC; Chief Information  
Security Officer,  
vArmour



**Loren Mahler**,  
Vice President, MWW  
Group's corporate  
communications  
practice



**Jerrod Montoya**,  
Security & Compliance  
Attorney, OATI; Vice  
President, InfraGard  
Minnesota Members  
Alliance



**Dave Notch**,  
Director, Information  
Protection and  
Business Resilience,  
KPMG



**James Ryan**,  
Chief Strategy Officer,  
Cyber Security Summit;  
Owner & Founder,  
Litmus Logic, LLC



**Philip Schenkenberg**,  
Attorney and  
Shareholder, Business  
Litigation, Briggs &  
Morgan, P.A.



**Scott Singer**,  
Captain, United  
States Navy Reserve;  
Chief Security and  
Information Officer,  
PaR Systems, Inc.



**Kevin Spanbauer**,  
VP, Business  
Development, Intensity  
Analytics Corporation



**Elizabeth Stevens**,  
Director, Enterprise  
Resiliency & Response,  
UnitedHealth Group

## 2015 SUMMIT COMMITTEE

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**Paulette Sorenson**, CMP, Director of Events, The  
Event Group, Incorporated

**The 2015 Cyber Security Summit would not have been possible without the efforts, commitment, and expertise of all who were involved. Thank you.**

# FULL SUMMIT AGENDA

## Monday, October 19 - VIP Reception

**5:30 - 6:15PM** Check in and Networking

**6:15 - 6:20PM** Welcome

**Speaker:** Eran Kahana, J.D., Attorney, Maslon LLP; Research Fellow, Stanford Law School; General Counsel and Member of the Board of Directors, InfraGard

**6:20 - 6:25PM** Keynote Introduction

**Speaker:** Michael C. McCarthy, Partner and Member of Firm Governance Committee, Maslon LLP

**6:25 - 6:40PM** Keynote Speaker

**Speaker:** Andrew Borene, Chair, Cyber Security Summit 2015; IBM Federal Business Leader for i2 Safer Planet & Adjunct Professor of Organized Crime at American University

**6:40 - 7:00PM** Closing Remarks

**7:00 - 7:30PM** Networking

**7:30 - 9:00PM** VIP Dinner

## Tuesday, October 20

**7:00 - 7:45AM** Check-in + Light Networking Breakfast

**8:00 - 8:15AM** Welcome + Year in Review

**Speaker:** Andrew Borene, Chair, Cyber Security Summit 2015; IBM Federal Business Leader for i2 Safer Planet & Adjunct Professor of Organized Crime at American University

**8:15 - 8:25AM** Setting the Stage: The More You Know...

**Speaker:** Steen J. Fjalstad, MN ISACA President, InfraGard Intelligence Committee, Midwest Reliability Organization Security and Mitigation Principal

**8:25 - 8:45AM** The New Executive Order: The Impact on Public + Private Sectors

**Introduction:** Thomas A. Baden Jr., CIO, Commissioner of MN.IT, Chief Information Officer, Minnesota

**Speaker:** Chris Buse, CPA, CISA, CISSP, Assistant Commissioner and Chief Information Security Officer, MN.IT; MS-ISAC Executive Committee

**8:45 - 9:40AM** Cybersecurity and Cyberwar: What Everyone Needs to Know

**Speaker:** P.W. Singer, Senior Fellow, New America Foundation

**9:45 - 10:30AM** Break in Exhibit Area

**10:30 - 11:45AM** Panel Discussion - Cyber Security vs Cyber Warfare

**Introduction:** David Kushner, Director, Solution Sales, ViON Corporation

**Moderator:** Todd Rosenblum, Senior Executive, Worldwide Business Development, IBM

**Panelist:** Christopher J. Golomb, Supervisory Special Agent, FBI, Minneapolis Division

**Panelist:** Rodney Hite, Director, Big Data Solutions, ViON Corporation

**Panelist:** Joel Hollenbeck, Strategic Accounts Engineering Manager, Check Point Software Technologies, Ltd.

**Panelist:** Brad Mecha, Senior Cyber Defense Consultant, Cybereason

**Panelist:** Adam Meyer, Chief Security Strategist, SurfWatch Labs Inc.

**11:45AM - 12:30PM** Lunch in Exhibit Hall + Atrium

**12:30 - 1:15PM** Turning the Tables on Cyber Attackers

**Speaker:** Alejandro Borgia, Vice President of Product Management, Symantec Corporation

**1:15 - 2:30PM** Panel Discussion - Team Based Cyber Risk Management Programs

**Introduction:** Jeffrey Man, Security Strategist & Evangelist, Tenable Network Security, Inc.

**Moderator:** Karl Mattson, CISSP, CISM, Senior Fellow, Technological Leadership Institute, University of Minnesota

**Panelist:** Kerry Anderson, Lead Cyber Security Engineer, Shared Technology Services Group

**Panelist:** Adam Meyers, Vice President Intelligence, CrowdStrike, Inc.

**Panelist:** Loren Mahler, Lead Cyber Security Engineer, Shared Technology Services Group

**2:30 - 3:00PM** Break + Dessert in Exhibit Area

**3:00 - 3:20PM** Cyber Response Strategies

**Speaker:** Major General Richard C. Nash, Adjutant General, Minnesota National Guard

**3:20 - 3:40PM** Critical Security Controls to reduce Cyber Risk

**Speaker:** Col. Stefanie Horvath, MSS, Colonel, MN Army National Guard

**3:40 - 4:15PM** Evaluating Information Security Solutions To Optimize Successful Implementations

**Speaker:** Kerry Anderson, Lead Cyber Security Engineer, Shared Technology Services Group

**4:15 - 5:30PM** Networking Reception in Exhibit Area



## Wednesday, October 21

**8:00 - 9:00AM Check in + Light Networking Breakfast**

**9:00 - 9:30AM Welcome + Scholarship Presentation**

**Speaker:** Dr. Massoud Amin, Chairman, IEEE Smart Grid; Chairman, Board of Directors, Texas Reliability Entity; Director, Board of Directors, Midwest Reliability Organization; Director and Professor, Technological Leadership Institute and ECE, University of Minnesota

**9:30 - 10:20AM Why the Future Security Operation Center (SOC) must understand its Adversaries and their Intentions**

**Introduction:** Dr. Massoud Amin, Chairman, IEEE Smart Grid; Chairman, Board of Directors, Texas Reliability Entity; Director, Board of Directors, Midwest Reliability Organization; Director and Professor, Technological Leadership Institute and ECE, University of Minnesota

**Speaker:** Michael Kehoe, MBA, Professional, IBM Worldwide IR Enterprise Insight Analysis Leader, IBM

**10:20 - 11:00AM Networking Break in Exhibit Area**

**11:00AM - 12:15PM Panel Discussion - Cyber Intelligence Sharing – Has the Time Finally Come for Real Collaboration?**

**Moderator:** Chris Buse, CPA, CISA, CISSP, Assistant Commissioner and Chief Information Security Officer, State of Minnesota; MS-ISAC Executive Committee Member

**Panelist:** Mike Echols, Director, Cyber Joint Program Management Office, National Protection and Program Directorate, US Department of Homeland Security

**Panelist:** Carlos P. Kizzee, J.D., LL.M, Executive Director, Defense Security Information Exchange

**Panelist:** Erin Meehan, Program Lead of the State, Local, Tribal, and Territorial Cybersecurity Engagement Program, U.S. Department of Homeland Security, Office of Cybersecurity and Communications

**12:15 - 1:30PM Networking Lunch**

**1:30 - 3:00PM Panel Discussion- What financial, retail and health care companies can learn from 2015's data breaches**

**Moderator:** Eran Kahana, J.D., Attorney, Maslon LLP; Research Fellow, Stanford Law School; General Counsel and Member of the Board of Directors, InfraGard

**Panelist:** Rozi Bhimani, Staff Attorney, Federal Trade Commission

**Panelist:** Robert E. Booker, Vice President and Chief Information Security Officer, UnitedHealth Group

**Panelist:** Barry Caplin, Vice President and Chief Information Security Officer, Fairview Health Services

**Panelist:** Jay Spreitzer, MS, GIAC, GCED, Assistant Vice President, Wells Fargo Bank

**3:00 - 3:30PM Break + Dessert in the Exhibit Area**

**3:30 - 4:35PM Cyber Attacks and Our Nation's Security**

**Speaker:** Matthew Olsen, President of Consulting, IronNet Cybersecurity; Former National Counterterrorism Center Director

**4:35 - 5:00PM Closing Remarks**

## UPCOMING EVENTS

**22**

OCTOBER 2015

### ADVANCE IT MINNESOTA – INSIDE INDUSTRY: ENTRY, TRANSITION, ADVANCEMENT

Minneapolis Central Library  
Employer presentations and panels, learning institution displays, job search strategies and more.

**29**

OCTOBER 2015

### SECURE MINNEAPOLIS CONFERENCE

Embassy Suites St. Paul Downtown  
Focus will be on the efficacy and efficiency of your controls and how to elevate your game while providing the fundamental numbers back into the decision-making process.

**27**

OCTOBER 2015

### ISACA MINNESOTA – CHAPTER MEETING AND ROUNDTABLE

Ramada Plaza Minneapolis  
Chris Buse, CISO for the State of Minnesota, will keynote.

**16**

NOVEMBER 2015

### INFRAGARD MINNESOTA – GENERAL MEMBERSHIP MEETING

Optum Conference Center Auditorium  
InfraGard's goal is to promote ongoing dialogue and timely communication between its expert members and the FBI.

## STAY CONNECTED

Visit [CybersecurityBusiness.com](http://CybersecurityBusiness.com) to keep up-to-date on current events and sign up for our weekly newsletter!



# intelligence made with data

IBM's Safer Planet portfolio can help you discover fresh insights, collect time-sensitive data and act with confidence. In fact, intelligence leaders around the world are already using IBM i2 solutions to help their organizations uncover mission critical intelligence buried within overwhelming data sets and accelerate the data to decision process.

**To learn more, visit:**  
**[ibm.co/1TKyTVF](http://ibm.co/1TKyTVF)**

# 1/2 DAY SESSION AGENDAS



## CYBER SECURITY FOR SMALL + MIDDLE MARKETS

Tuesday, October 20

- 8:00 – 8:45 AM** Experience the Full Summit general session (via live stream)
- 8:45 – 9:00 AM** Welcome
- 9:00 – 9:15 AM** Meet Your FBI Liaison  
Speaker: John Bonhage, Special Agent, FBI, InfraGard Coordinator
- 9:15 – 9:45 AM** The Fundamentals of Cyber Security  
Speaker: Patricia Toth, Supervisory Computer Scientist, Computer Security Division, NIST
- 9:45 – 10:30 AM** Solutions to Common Small Businesses Cyber Problems  
Speaker: Philip Schenkenberg, J.D., Attorney and Shareholder, Business Litigation, Briggs & Morgan, P.A.
- 10:30 – 11:00 AM** Break in Exhibit Area
- 11:00 – 11:45 AM** Turning Cyber Security into a Competitive Advantage  
Speaker: Ken M. Barnhart, President & CEO, Occam Group
- 11:45 AM– 12:30 PM** Are You Cyber Resilient?  
Speaker: L. Keith Burkhardt, CISA, CISSP, Vice President, Kraus-Anderson Insurance
- 12:30 – 1:15 PM** Networking Lunch in the Exhibit Area



## CYBER THREAT INTELLIGENCE 101

Tuesday, October 20

- 1:30 – 2:00 PM** Registration & Exhibits
- 2:00 – 3:00 PM** Improving Enterprise Security – A Practical Application of Threat Intelligence  
Speaker: Rafal Los, Director, Solutions Research & Development, Optiv
- 3:00 – 3:30 PM** Break in Exhibit Area
- 3:30 – 4:15 PM** CISCO Talos Security Intelligence and Research Group
- 4:15 – 5:00 PM** Juniper Networks



**BOTH 1/2 DAY SESSIONS ARE AVAILABLE FOR FULL SUMMIT REGISTRANTS TO ATTEND.**

\*Please note, registrants for the 1/2 day sessions will not be able to attend the Full Summit without purchasing an upgraded registration. On-site Full Summit registration is available at the registration desk in front of the exhibit area.



# SPEAKERS

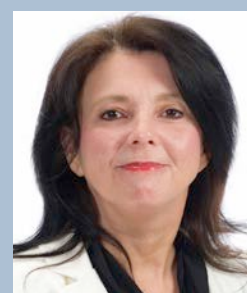


## DR. MASSOUD AMIN

*Chairman, IEEE Smart Grid; Chairman, Board of Directors, Texas Reliability Entity; Director, Board of Directors, Midwest Reliability Organization; Director and Professor, Technological Leadership Institute and ECE, 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.



## KERRY ANDERSON

*Information Technology and Services Professional*

Kerry A. Anderson is an information security professional with more than 18 years of experience in information security and compliance. She has been awarded an Executive MBA (Anna Maria College), MSCIS (Bentley University), and MSIA (Norwich University), as well as a Certificate in Advanced Computer Security from Stanford University. She is an adjunct professor at Clark University in cyber security. Ms. Anderson holds CISA, CISM, CRISC, CGEIT, CISSP, ISSMP, ISSAP, CSSLP, CFE, and CCSK certifications. Ms. Anderson is the author of numerous articles in professional journals and the book, "The Frugal CISO: Using

Innovation and Smart Approaches to Maximize Your Security Posture" (CRC Press Spring 2014). She has been a speaker, panelist, moderator, and chairperson at many professional conferences.

She can be reached at [kerry.ann.anderson@verizon.net](mailto:kerry.ann.anderson@verizon.net).



## THOMAS A. BADEN JR.

*Commissioner and MN State Chief Information Officer, MN.IT Services*

An experienced leader in government technology, Tom Baden was appointed by Governor Mark Dayton in 2015 to serve as Chief Information Officer (CIO) for the State of Minnesota.

Most recently, Baden served as the MN.IT Chief Information Officer at the Department of Human Services, the largest of the executive branch state agencies with the most significant IT footprint, including the Medicaid Management Information System, the integrated eligibility system (MAXIS), MNsure, the State's child support system

PRISM, and the state hospital system (known as Avatar).

Baden's 33 years of expertise in IT governance and management includes state service at the Department of Human Services, the Department of Employment and Economic Development, in addition to serving as MN.IT's enterprise architect (then the Office of Enterprise Technology).



## KEN M. BARNHART

*President & CEO, Occam Group*

Ken is the founder and CEO of the Occam Group, and has significant experience in cyber security and cloud strategy. He sits on several advisory boards and working groups and for over a decade, Ken has helped companies of all sizes design, host, and secure environments in private, public, and hybrid cloud models. With over 20,000 consulting hours, Ken has helped hundreds of organizations use technology as a force multiplier to move their business strategy forward in a smart and safe manner.

Giving back to our communities is core to the Occam Group culture, and Ken donates financially and with many weeks of volunteer time each year for the Wounded Warrior Project, Prison Ministries, sponsoring development projects, and teaching leadership development throughout Africa.



## ROZI BHIMANI

*Staff Attorney, Federal Trade Commission, Midwest Region*

Rozi Bhimani is a staff attorney in the Midwest Region of the Federal Trade Commission. Her practice includes enforcement of FTC laws in consumer protection matters, including telemarketing fraud, illegal robocall schemes, and pyramid scams. Prior to joining the FTC, Rozi worked as a litigation associate at Kirkland & Ellis LLP in Chicago. She graduated from the University of Minnesota law school and clerked for the Honorable Gerald W. Heaney of the United States Court of Appeals for the Eighth Circuit.

# SPEAKERS



## JOHN BONHAGE

*Special Agent, FBI, InfraGard Coordinator*

John Bonhage graduated from Fordham University in New York City with a Bachelor's Degree in History in 1991. Prior to joining the FBI in 1995, John was a teacher in Japan and Alaska and traveled extensively around the world, to include living in India, Nigeria and Japan for 16 years.

Over the course of his 19 years in the FBI John has worked on violent crime, white collar crime, environmental crime, investment scams, counterintelligence and counterterrorism investigations. Prior to becoming the FBI Minneapolis InfraGard Coordinator in January 2015,

John was the FBI Airport Liaison Agent Coordinator at Minneapolis International Airport (MSP) for FBI Minneapolis where he investigated matters ranging from crimes aboard aircrafts, airport insider threats, suspicious activity, and counterterrorism. He has traveled to Israel, Latvia, United Kingdom, and Thailand as part of his FBI duties and spent five months at Bagram Air Force Base in Afghanistan in 2010 as the logistics officer for the FBI.

In addition to his duties as an investigator he is also a Firearms Instructor, Assistant SWAT Team Leader, Special Agent applicant fitness assessor and a certified Wilderness First Responder.



## ROBERT E. BOOKER

*Vice President and Chief Information Security Officer, UnitedHealth Group*

Robert Booker has been the Chief Information Security Officer for UnitedHealth Group since July of 2008. In this role, Mr. Booker is responsible for information risk management for all of UnitedHealth Group business segments, supporting the trust and accountability that UnitedHealth Group delivers to bring quality, affordability, access and simplicity to the health care system. Mr. Booker's role also requires the development of performance metrics for information risk within the organization and responsibility for cost management

and service level management for delivered programs. Prior to UnitedHealth Group, Mr. Booker managed business continuity, security and governance programs for BT Americas – the U.S. division of British Telecom focused on international networking and IT services. Mr. Booker has built and managed numerous information security programs for companies both in the United States and around the world in a number of industries including energy, manufacturing, healthcare, pharmaceutical, financial services, insurance, and professional services as well as state and federal government. Mr. Booker presently serves on the Board of Directors of the Health Information Trust Alliance (HITRUST) and has been instrumental in establishing a common security framework for the health industry.



## ANDREW BORENE

*Federal Business Leader, IBM i2 Safer Planet; Chairman, 2015 Cyber Security Summit*

Andrew Borene provides executive leadership for IBM's i2 Safer Planet Federal business team focused on helping U.S. agencies and systems integrators seize opportunities and meet challenges using big data and deep analytic technologies. He is also an Adjunct Professor at American University specializing in transnational organized crime. Prior to joining IBM, Mr. Borene was a Counselor to the international law firm of Steptoe & Johnson LLP. His corporate career includes

leading corporate development at a microrobotics startup and managing federal open-source intelligence programs for a publicly-held, international big-data company. He served as Associate Deputy General Counsel at the U.S. Department of Defense and is a former U.S. Marine Corps military intelligence officer. He is active within leading public-private initiatives for improved U.S. national security, global leadership and technology growth. Mr. Borene is also the editor of American Bar Association legal research books on human rights, humanitarian law and national security law. He is a Minnesota native based in Washington, D.C.



## ALEJANDRO BORGIA

*Vice President of Product Management, Symantec*

Alejandro Borgia is Vice President of Product Management at Symantec. He leads Product Management for Symantec's CTO organization, which includes Symantec's Security Technology and Response (STAR) division, a global team of over 600 security engineers and researchers that provides the underlying security technology across Symantec's security products. He also leads Product Management for Unified Security, which is a big data security ecosystem of analytic applications that leverage rich intelligence from a broad range of security products to create better security outcomes.

Prior to joining Symantec, Alejandro held a variety of leadership roles in both small and large companies, including Napster (while the company was owned by Best Buy), The Boston Consulting Group, Musicmatch (prior to its acquisition by Yahoo!) and Hewlett-Packard.

Alejandro holds an engineering degree in Computer Science with highest honors from Princeton University, and an MBA from UC Berkeley Haas School of Business, where he served as student body president.



## JIM BRZEZINSKI

*Region Sales Director, Tanium*

Jim Brzezinski is a Region Director with Tanium. He is a veteran venture backed startup company operator, with 7 different Silicon Valley based companies. Jim has amassed approximately 20 years' experience in Enterprise Software, SAAS, Big Data and Security. Mr. Brzezinski experience is grounded in 16 years as startup operator with roles in Sales, Sales Leadership, Business Development, Alliances and Services. Jim holds a Bachelor's Degree in Accounting from the University of Minnesota where he was also a collegiate athlete.

# SPEAKERS



## L. KEITH BURKHARDT, CISA, CISSP

*Vice President, Kraus-Anderson Insurance*

L. Keith Burkhardt is responsible for Kraus-Anderson's agency growth strategies including product development throughout all market sectors, talent acquisition and M&A. Recently, Mr. Burkhardt has developed Cyber Risk Strategies for the agency customers that unite cyber security vendors, the FBI, and insurance. Previously, Burkhardt was regional managing director of Wells Fargo Insurance Services, leading its 22 Upper Midwest operations and Minneapolis office for nine years. During that period, he led national initiatives for Wells Fargo Insurance in Healthcare, Public Entity and Higher Education.

He also served as managing director of Bloomington-based Acordia, developing its agency operations and market positioning; and as senior vice president of Memphis-based Sedgwick, directing its energy, transportation and healthcare production teams. In addition to his leadership roles, his experience also includes more than 25 years working with Lloyd's of London as well as managing and consulting on large claim events in excess of \$20 million. Burkhardt earned a B.A. in Economics from Southern Methodist University (SMU) and a B.B.A. in Finance from SMU - Cox School of Business.



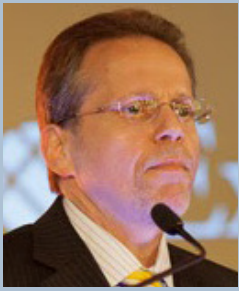
## CHRIS BUSE, CPA, CISA, CISSP

*Assistant Commissioner/CISO, MN.IT Services*

Christopher Buse is the Chief Information Security Officer for the State of Minnesota. In this capacity, Chris is responsible for designing and implementing the enterprise security architecture for state government. In addition, Chris is an Assistant Commissioner for MN.IT Services overseeing the IT Standards and Risk Management Division. His division includes Enterprise Architecture, IT Accessibility, Geospatial Information, Buy.IT, and Information Security. Previously, Chris served as the Manager of Information Technology Audits for the Minnesota Office of the Legislative Auditor. During his 19 years as

an auditor, Chris planned and oversaw information technology audit work done on large government computer systems.

Chris is a Certified Information Systems Auditor and a Certified Information Systems Security Professional. Chris 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.



## BARRY CAPLIN

*Vice President and Chief Information Security Officer, Fairview Health Services*

Barry is the first Chief Information Security Officer for Fairview Health Services, responsible for enterprise information security and technologies including HIPAA compliance and security architecture. Barry has 30 years of experience in technology, the last 20 focused on information security. He holds an MS in applied mathematics from Virginia Polytechnic Institute (Virginia Tech), and CISSP, ISSMP, CISA, and CISM certifications. He frequently speaks on a variety of security, safety and privacy topics, particularly staying safe with the internet,

social media, and mobile devices. Follow him on Twitter @bcaplin and read his blog [securityandcoffee.blogspot.com](http://securityandcoffee.blogspot.com).



## MICHAEL ECHOLS

*Director, Joint Program Management Office, National Protection and Program Directorate*

Michael Echols is the Director, Cyber Joint Program Management Office (JPMO) within the Cybersecurity and Communications (CS&C) component at the Department of Homeland Security (DHS). In this role, he leads two unique cybersecurity information sharing programs, Enhanced Cybersecurity Services (ECS) and Cybersecurity Information Sharing Collaboration Program (CISCP).

Mr. Echols is developing and implementing cybersecurity strategies to assist DHS to meet its cyber mission by identifying opportunities

to enhance the effectiveness of information sharing operations, technology and policy. In his current role, he is the point person for the rollout of Presidential Executive Order 13691 – Promoting Private Sector Cyber Information Sharing.

Additionally, Mr. Echols managed the stand-up of the Joint Program Office under Executive Order 13618 supporting national security and emergency preparedness (NS/EP) communications. He managed the Committee of Principals (COP), 24 senior executive members of the NCS, and the President's National Security Telecommunications Advisory Committee (NSTAC), 30 chief executive level NSTAC members representing IT, Defense and Communications companies that provide policy recommendations to the President.



## STEEN J. FJALSTAD, MS, CISA, CISSP, CGEIT, CRISC

*MN ISACA President, InfraGard Intelligence Committee, Midwest Reliability Organization Security and Mitigation Principal*

Steen Fjalstad currently works for Midwest Reliability Organization (MRO) as part of the Critical Infrastructure Protection team helping to secure the North American Electric Grid ('The Grid'). Working for MRO Steen has managed, led, and supported cyber security work with numerous North American Electric Reliability Corporation (NERC) registered entities on critical infrastructure protection. Steen coordinates with industry, local, state, and federal agencies to manage outreach efforts on threats & vulnerabilities to the Grid. Steen also

manages mitigation efforts with NERC registered entities. Prior to joining MRO, Steen obtained significant experience as a security, audit, risk, and project manager with a focus on securing, designing, implementing, and auditing information technology systems. Steen has served over one-hundred different organizations spanning three continents. Steen holds a Master's Degree from University of Minnesota-Twin Cities in Security Technologies and a Bachelor's degree from the University of Wisconsin-Whitewater in Management Computer Systems.



# SPEAKERS



## CHRISTOPHER J. GOLOMB

*Supervisory Special Agent, FBI, Minneapolis Division*

SSA Golomb is currently assigned as a Supervisory Special Agent for the Minneapolis Division responsible for HUMINT intelligence and corporate outreach. SSA Golomb has worked for the FBI in the Minneapolis Division since 2010. Prior to his promotion as Supervisor of the HUMINT intelligence program, SSA Golomb had been assigned as the division's Counterintelligence Strategic Partnership Coordinator, focused on developing and building partnerships and liaison in the business and academic communities in an effort to proactively protect America's most valuable and sensitive information

and technology. SSA Golomb joined the FBI in 2003 and was assigned to the Cleveland Division. In Cleveland, SSA Golomb was detailed to work counterintelligence at NASA's John Glenn Research Center and focused on espionage and technology theft cases. SSA Golomb transferred to the Detroit Division in 2005 and worked counter proliferation cases involving export controlled commodities in addition to Economic Espionage cases targeting the defense and automotive industries. In 2008, SSA Golomb was assigned as a Supervisory Special Agent to FBIHQ and worked on matters involving national security and foreign investment in the United States. Prior to joining the FBI, SSA Golomb worked for ten years in both product engineering and international sales for the automotive industry.



## RODNEY HITE

*Director, Big Data Solutions, VION Corporation*

Rodney is responsible for VION's Big Data solutions focus. This includes systems upon which to store and analyze Big Data. He is responsible for providing requirements in system and software development that will provide operational users with functional capabilities that will increase effectiveness and efficiency. Rodney's background includes twenty plus years as a US Army Special Forces operator with duties including tactical level information discovery and analysis in such areas as Bosnia-Herzegovina, Afghanistan, and Iraq. Rodney provided key architectural requirements for the development

of the Army's Big Data Intelligence system (DCGS Standard Cloud) for the Information Intelligence Warfare Division (I2WD) located at Fort Monmouth, NJ in support of the Department of Defense All-Source Intelligence Analysts. Most recently, Rodney held a position at Data Tactics as Manager, Operations and Integration for the Army Intelligence Big Data effort. Rodney has held positions ranging from Tactical Operations to Corporate Vice President.



## JOEL HOLLENBECK

*Strategic Accounts Engineering Manager, Check Point Software Technologies, Ltd.*

Joel Hollenbeck is the Security Engineering Manager for Strategic Accounts at Check Point Software Technologies Inc., the worldwide leader in securing the Internet. His background includes over 20 years of experience deploying application protection and network-based security. Mr. Hollenbeck has been securing networks and systems since 1994, including developing and executing on strategies to connect some of the most sensitive networks - such as the Federal Reserve Bank - to the Internet in the earliest days of commercial

internet connectivity. Mr. Hollenbeck has served as a consulting Security Architect with Check Point Software Technologies, prior to joining Check Point responsibilities included day to day operational work in complex security environments, policy planning, management and incident response.



## COL. STEFANIE HORVATH, MSS

*Colonel, MN Army National Guard*

COL Stef Horvath is currently the J-6/CIO for the MN Army National Guard. She serves as the primary staff advisor to the Adjutant General, staff, and command officials on information technology (IT), communications, and information assurance.

COL Horvath has served as a signal officer for the majority of her career, responsible for data and voice communication networks and the security of those networks.

COL Horvath is the co-chair for the State of MN's Information Security Governance committee. COL Horvath has an undergraduate degree from NDSU and a Master's in Strategic Studies from the US Army War College. She is the recipient of the Bronze Star and Meritorious Service Medal.



## ERAN KAHANA, J.D.

*Attorney, Maslon LLP; Research Fellow, Stanford Law School; General Counsel and Member of the Board of Directors, InfraGard*

Eran Kahana is a technology and intellectual property attorney with extensive experience advising clients in domestic and international settings. His practice focuses on cyber security, patent, trademark and copyright law. Eran also advises clients on a variety of e-commerce, licensing, joint development and consulting in diverse industries.

Eran serves as general counsel and on the Board of Directors for the Minnesota Chapter of InfraGard, a nonprofit partnership between

the FBI and the private sector dedicated to the protection of critical infrastructure. In addition, he is a Research Fellow at Stanford Law School, where he writes and lectures on the legal aspects of using artificial intelligence.

# SPEAKERS



## **MICHAEL KEHOE, MBA**

*Professional, IBM Worldwide i2 Enterprise Insight Analysis Leader, IBM*

Michael Kehoe is the WW i2 Enterprise Insights Analyses Sales Leader for IBM. His responsibilities are to work with clients and deliver solutions that solve their challenges caused by their overwhelming data. Currently he is working with WW clients in developing the next generation Security Operation Centres (SOC). Understanding your adversaries, their threats and their methods to actively prepare to detect and defend against them.

Previously Mike was a senior global product manager for Smarter

Cities, where he led the delivery of product based solutions for world cities. His areas of expertise includes industrial control, business intelligence, enterprise process design, business strategy and technical opportunity realization.

Mike has an honors degree in Electronic Engineering from Trinity University Dublin and holds a Master of Business Administration degree from the Open University. He has written papers, redguides and has spoken around the world on what "becoming smarter" can achieve and is considered to be one of IBM's foremost forward thinkers on this subject.



## **CARLOS P. KIZZEE, J.D., LL.M**

*Executive Director, Defense Security Information Exchange*

Mr. Kizzee is responsible for overseeing the administrative management and operations of the Defense Security Information Exchange, an organization focused on enhancing the cyber security of Defense Industrial Base entities through industry-led mechanisms involving threat information sharing, analysis, collaboration and informed mitigation.

Before entering DHS, Mr. Kizzee served as Counsel for the U.S. Air Force Office of Special Investigations. Prior to 2003, he was a career Marine Corps attorney serving as a military attorney Prosecutor,

Defense Counsel, Legal Assistance Counsel, and as a Federal Special Assistant United States Attorney in Arizona and in the Southern District of California. As a Marine Corps Officer, Mr. Kizzee also served as Commander of the Marine Corps' Headquarters and Services Battalion on Okinawa, Japan. Mr. Kizzee's final military assignment before military retirement was with the Navy Office of the General Counsel as the Marine Corps Deputy Area Counsel for the Pacific Area in Okinawa, Japan. A graduate of the United States Naval Academy, Mr. Kizzee has a Bachelor of Science degree in Mathematics, a Juris Doctorate from the Georgetown University Law Center, and a Master of Laws from the Judge Advocate General's School of the Army at the University of Virginia's School of Law.



## **DAVID KUSHNER**

*Director, Solution Sales, VION Corporation*

David Kushner is the Director of the Big Data Analytics and Cyber practice at VION Corporation, responsible for helping customers and prospects develop enterprise Big Data and Analytic strategies targeting specific and current, high-value business and mission challenges. He has been instrumental in supporting cyber efforts within the DoD and commercial organizations by advising on the cross organizational impact of Big Data and developing a time to value approach where assisting organizations in deriving value from their investment in complex solutions is repeatable.

Prior to VION, Dave spent 10 years at EMC Corporation's Information Intelligence Group, managing the OEM Business Development Team responsible for integrating security, enterprise content management and capture solutions into key vertical market partner offerings. Prior to EMC, Dave was with OTG Software, beginning in 1996 (acquired by Legato Systems in 2001) running their software distribution channel and subsequently began OTG's Healthcare practice that created successful partnerships with the top 4 out of 5 largest Healthcare IT companies worldwide.



## **RAFAL LOS**

*Director, Solutions Research and Development, Optiv*

Rafal Los brings a pragmatic approach to enterprise information security using his 15 years of technical, consulting and management skills. As director, solutions research and development at Optiv, Los helps organizations build mature, defensible and operationally efficient security programs. He is also responsible for driving the company's solutions research for the information security community. Los previously worked at Accuvant. Prior to that, he served as principal, strategic security services at HP Enterprise Security Services. Los developed a methodology for refocusing enterprise

security programs through an assessment and threat-centric approach, directly aligning security to business value. While there, he developed new services-based offerings from concept through prototype and launch stages, and spearheaded a cross-business task team to develop new use cases for products and service offerings within the existing portfolio. Previously at HP, Los served several diverse roles including security strategist in enterprise security products where he advised customers on implementing practical solutions. He also wrote and maintained the top blog in HP Software, "Following the White Rabbit." Prior to HP, Los held various positions at GE Energy, EnterEdge Technology and Envestnet PMC.



## **LOREN DEALY MAHLER**

*Vice President, MWW Group's corporate communications practice*

Loren Dealy Mahler is Vice President in MWW Group's corporate communications practice. She works with a number of diverse clients, including large corporations and non-profits, to accomplish their business objectives through corporate reputation building, executive visibility and influencer engagement. Prior to joining MWW, Loren spent over a decade in Washington D.C. directing strategic communications initiatives. Most recently, Loren served as Director of Legislative Affairs on the National Security Council Staff at the White House, where she coordinated across multiple federal agencies to build support for national security, foreign

policy and homeland security policy issues. Previously, Loren was Director of Communications for the Office of Legislative Affairs at the Department of Defense, where she created legislative communications strategies to win support for multiple policy initiatives across a wide range of audiences. She also worked to coordinate strategic communications and legislative outreach on crisis issues, including the publication of classified government documents by Wikileaks in 2010. Before joining DoD, Loren was Communications Director for the House Armed Services Committee, where she coordinated all communications functions, including external communications around the Committee's work on the annual defense bill.

# SPEAKERS



## BRAD M. MAIORINO

*Senior Vice President and Chief Information Security Officer (CISO), Target*

Brad Maiorino brings more than 20 years of experience in information technology, including a strong engineering background paired with a broad and deep perspective on technology risk and compliance. Across multiple global enterprises, Brad has transformed information security and risk organizations and cultivated cultures of security. In his current role, Brad is responsible for Target's information security and technology risk strategy, helping to ensure the company, their guests, and their team members are protected from internal and

external information security threats.

Prior to Target, Brad was the Chief Information Security Officer for General Motors, where he led the transformation of their global information security and IT risk organization. Prior to General Motors, he was the Chief Information Security Officer at General Electric. There he oversaw GE's global information security program across all lines of business and led the design and build of the GE Cyber Security Fusion Center, a state-of-the-art security operations center.



## JEFFREY MAN

*Strategist and Security Evangelist, Tenable Network Security, Inc.*

Mr. Man has compiled a rich knowledge base in cryptography, information security, and industry/regulatory compliance standards. Most recently, he served as a QSA and trusted advisor helping his clients to architect information security programs to meet PCI security requirements. As an NSA cryptographer, he oversaw completion of the first software-based cryptosystems ever produced by the high-profile agency. As a Security Strategist for Tenable Network Security, Mr. Man offers his thirty two years of information security experience to help customers align Tenable products and services with the best practices

that are required to maintain a viable security program. Tenable provides continuous network monitoring to identify vulnerabilities, reduce risk and ensure compliance. Our family of products includes SecurityCenter Continuous View™, which provides the most comprehensive and integrated view of network health, and Nessus®, the global standard in detecting and assessing network data.

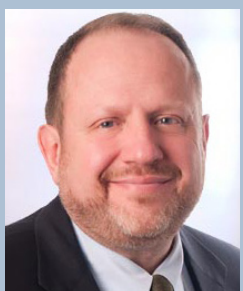


## KARL MATTSON, CISSP, CISM

*Senior Fellow, Technological Leadership Institute, University of Minnesota*

Karl Mattson is a Senior Fellow at the University of Minnesota's Technological Leadership Institute (TLI) where he teaches cyber security and risk management. He has over 17 years' experience as a leader and practitioner in threat intelligence, information security and risk management and has held positions in the financial, defense and retail industries. He is currently Senior Vice President and Director of Risk Metrics & Analytics at a large financial institution. He holds an

M.S. from Boston University, an M.B.A. from Auburn University, a B.A. from St. Mary's University of Texas, and maintains CISSP and CISM certifications.



## MICHAEL C. MCCARTHY

*Partner and Member of Firm Governance Committee, Maslon LLP*

Mike McCarthy is a partner in Maslon's Litigation Group and a member of the firm's Governance Committee. He represents clients in complex litigation and appeals. His practice has involved a range of substantive matters, including breach of fiduciary duty, securities and consumer fraud, environmental claims, medical-device liability, and antitrust. Mike has defended class actions in federal and state courts involving environmental claims, medical-device liability, securities and consumer fraud, constitutional rights, and antitrust violations. In

addition, he has experience with and expertise in technology related litigation (including patent infringement) and electronic discovery. Before joining Maslon, Mike served as a law clerk to Judge Gerald W. Heaney of the U.S. Court of Appeals for the Eighth Circuit and Judge Louis H. Pollak of the U.S. District Court for the Eastern District of Pennsylvania.



## BRAD MECHA

*Senior Cyber Defense Consultant, Cybereason*

Brad has spent the past decade in multiple capacities helping companies defend themselves against a wide variety of threats. In his current role as a Sr. Cyber Defense Consultant with Cybereason, a security startup leveraging behavioral analytics and machine learning, Brad is educating Security Teams on how to use turn key endpoint data analytics to augment and automate their defensive capabilities.

Previous to Cybereason, Brad was a SOC/CIRT Consultant with RSA, the Security Division of EMC specializing in Response Optimization

and Development, Threat Intelligence, Network Forensics and Malware Analysis. Prior to RSA, Brad was the CIRT Lead responsible for IR Program Development and Incident Detection for Rockwell Automation, a provider of Industrial Automation and Advanced Manufacturing headquartered in Milwaukee, WI.



# SPEAKERS



## ERIN MEEHAN

*Program Lead of the State, Local, Tribal, and Territorial Cybersecurity Engagement Program, U.S. Department of Homeland Security, Office of Cybersecurity and Communications*

Erin Meehan is the Program Lead of the State, Local, Tribal, and Territorial Cybersecurity Engagement Program within the Department of Homeland Security's Office of Cybersecurity and Communications (CS&C). In her role, Ms. Meehan has worked to build strong partnerships with associations such as the National Association of Counties, state chief information officers and chief information

security officers, as well as governor's homeland security advisors to help state and local governments strengthen their cybersecurity postures. To this end, Ms. Meehan's program brings to bear all of the programs and resources CS&C has to offer.



## ADAM MEYER

*Chief Security Strategist, SurfWatch Labs Inc.*

Adam Meyer has served in leadership positions in the defense, technology, and critical infrastructure sectors for more than 15 years.

Prior to joining SurfWatch Labs, Mr. Meyer was the Chief Information Security Officer (CISO) for one of the largest public transportation systems in the United States. Preceding his role as a CISO, Mr. Meyer served as the Director of Information Assurance and Command IA Program Manager for the Naval Air Warfare Center, Naval Air Systems

Command one of the Navy's premier engineering and acquisition commands.

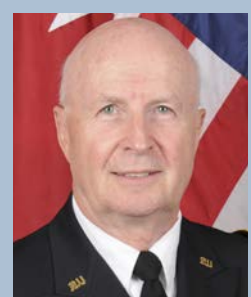


## ADAM MEYERS

*Vice President of Intelligence, CrowdStrike, Inc.*

Adam Meyers has over a decade of experience within the information security industry. He has authored numerous papers that have appeared at peer reviewed industry venues and has received awards for his dedication to the field. At CrowdStrike, Adam serves as the VP of Intelligence. Within this role it is Adam's responsibility to oversee all of CrowdStrike's intelligence gathering and cyber-adversarial monitoring activities. Adam's Global Intelligence Team supports both the Product and Services divisions at CrowdStrike and Adam manages

these endeavors and expectations. Prior to joining CrowdStrike, Adam was the Director of Cyber Security Intelligence with the National Products and Offerings Division of SRA International.



## MAJOR GENERAL RICHARD C. NASH

*Adjutant General, Minnesota*

Major General Richard C. Nash assumed duties as the Adjutant General of the Minnesota National Guard on November 1, 2010.

General Nash's military service began with his enlistment into the Infantry in 1972. He would later earn a commission as a Second Lieutenant in the Infantry following completion of the Officer Candidate School. General Nash has since commanded at all levels, from company to multinational division. He most recently completed a deployed assignment as Commander, United States Division -

South supporting Operation Iraq Freedom in 2010. Prior to serving as the Adjutant General of Minnesota, Major General Nash served as the Division Commander of the 34th Infantry Division, Special Assistant to the Combatant Commander, North American Aerospace Command, United States Northern Command. He also served as the Commanding General for the Multinational Brigade (North), SFOR-14 in support of Operation Joint Forge, Bosnia Herzegovina, a tour he performed while serving as Assistant Division Commander (Maneuver) for the 34th Infantry "Red Bull" Division.



## TERRANCE C. NEWBY

*Attorney, Maslon LLP*

Terry Newby is a partner in the Litigation Group at Maslon LLP and focuses his practice on intellectual property, e-commerce, and complex commercial litigation matters. He has extensive IP litigation experience, successfully representing clients in state and federal courts throughout the country in a broad range of infringement matters involving patent, trademark, copyright, and trade dress as well as licensing disputes. Terry has also represented clients in complex commercial litigation matters, including insurance disputes,

civil RICO claims, breach of contract claims, and class actions. Cyber security is a top concern for these clients.

# SPEAKERS



## **MATTHEW OLSEN**

*President of Consulting, IronNet Cybersecurity; Former National Counterterrorism Center Director*

Matthew Olsen has decades of national security and intelligence experience, including an appointment as director of the National Counterterrorism Center (NCTC) from 2011–2014. When he left that role, President Obama noted that “every American is safer because of his service.” Mr. Olsen also served as General Counsel for the National Security Agency, held key roles at the Department of Justice, worked for more than a decade as a federal prosecutor, and served as Special

Counsel to the Director of the Federal Bureau of Investigation. Today, Mr. Olsen is president of consulting at leading cyber security firm IronNet Cybersecurity.



## **TODD M. ROSENBLUM**

*Senior Executive, Worldwide Business Development, IBM*

Todd joins IBM as a Senior Executive for Global Business Development. He is responsible for identifying market engagement opportunities for IBM’s Safer Planet, Enterprise Insight Analysis suite of capabilities. Todd focuses on deepening collaborative partnerships with senior executives in the U.S. Government, U.S. State, local and private sector companies, as well as worldwide defense, intelligence and law enforcement institutions. Prior to IBM, Todd was the Acting Assistant Secretary and Principal Deputy Assistant Secretary of Defense for Homeland Defense and Americas’ Security Affairs (2011–2015) and the Deputy Under Secretary of Intelligence at the

Department of Homeland Security (2009–2011). Additionally, he previously served as a Professional Staff Member on the Senate Intelligence Committee, the Military Legislative Assistant and National Security Advisor to Senator Evan Bayh, and held several management and advisory positions at the Department of State and the U.S. Arms Control and Disarmament Agency. Todd has received numerous individual and group awards, including the Department of Defense’s Distinguished Public Service Medal and the Department of Homeland Security’s Outstanding Public Service Medal. He received his Master’s in International Affairs from Columbia University, and his Bachelor of Arts from The George Washington University.



## **PHILIP SCHENKENBERG, J.D.**

*Attorney and Shareholder, Business Litigation, Briggs & Morgan, P.A.*

Phil is co-chair of Briggs and Morgan’s Business Litigation Section and serves on the firm’s board of directors. He is a member of the firm’s Privacy and Data Security Group, which offers a full range of services to help clients prevent, prepare for and minimize the impact of data security breaches and cyber attacks. Phil practices principally in data security, telecommunications and general business litigation. He also serves as the firm’s Data Security Manager and chairs the firm’s Information Security Committee. In his practice, Phil represents

clients in federal and state courts, and before the FCC and public utilities commissions.



## **P.W. SINGER**

*Senior Fellow, New America Foundation*

Peter Warren Singer is Strategist and Senior Fellow at the New America Foundation, founder of NeoLuddite, a technology advisory firm, the author of multiple award-winning books (including “Wired for War” and “Cybersecurity and Cyberwar: What Everyone Needs to Know”), and a contributing editor at Popular Science. He has been named by the Smithsonian Institution–National Portrait Gallery as one of the 100 “leading innovators in the nation,” by Defense News as one of the 100 most influential people in defense issues, by Analytica social media data analysis as one of the ten most influential voices in the world on cybersecurity, and by Foreign Policy to their Top 100

Global Thinkers List, of the people whose ideas most influenced the world that year. Prior to his current position, Dr. Singer was the founding Director of the Center for 21st Century Security and Intelligence at the Brookings Institution. He was the youngest scholar named Senior Fellow in Brookings’ 98-year history. Prior to that, he was the founding Director of the Project on U.S. Policy Towards the Islamic World, where he was the organizer of the U.S.–Islamic World Forum, a global leaders conference. He has also worked for the Office of the Secretary of Defense, and the Belfer Center for Science and International Affairs at Harvard. Singer received his Ph.D. in Government from Harvard and a B.A. from the Wilson School of Public and International Affairs at Princeton.



## **SCOTT SINGER, MBA**

*Captain, United States Navy Reserve; Chief Security and Information Officer, PaR Systems, Inc.*

Since assuming his role in 2010, Scott has been responsible for information systems, global quality, export control, security, and continuous process improvement. Before PaR, Scott spent 16 years with Medtronic in various leadership positions, and in his last IT position at Medtronic, he was head of IT for a billion dollar division. In 2003, Scott transitioned into quality at Medtronic where he drove a company-wide systems development and validation methodology

for IT systems. In his last two years at Medtronic, Scott led the global security function. Capt. Singer is active in the Navy Reserve and has been involved in the Gulf War and Operations Enduring Freedom/ Noble Eagle. Currently he is the Navy Emergency Preparedness Liaison Officer (NEPLO) for the state of Minnesota. In his most previous role he was the Executive Officer for Commander Pacific Fleet Maritime Operations Center responsible for supporting the communications and cybersecurity needs of the Pacific Fleet. Scott has an undergraduate degree in Meteorology from the University of Wisconsin and a Master’s in Business Administration from the University of Minnesota.

# SPEAKERS



## JAY SPREITZER, MS, GIAC, GCED

*Assistant Vice President, Wells Fargo Bank*

Jay Spreitzer has been with Wells Fargo for over 9 years, working as the Cyber Intelligence Coordinator. In his role, he routinely researches and analyzes cyber threat activities to produce threat intelligence reports and briefings for senior management and technology teams.

Prior to joining Wells Fargo, Jay retired from 23 years in the U.S. Army working in a variety of electronic and technical fields. Roles included system administrator, database administrator, Information Assurance Security Officer, and culminating as Information Management Officer. As Information Management Officer, he managed and developed all

facets of the organization's information security program.

Jay has completed his Bachelor of Science in Information Technology and a Master of Science in Information Assurance and Security. Some of his other training includes Network Penetration Testing and Ethical Hacking, Advanced Security Essential, the Criminal Intelligence Analyst Course, and the FBI Citizen's Academy. He holds the GIAC Enterprise Defender certification. He has over 18 years combined information security experience.

Jay is a member of the FS-ISAC Threat Intelligence Committee, InfraGard Intelligence Committee. Jay also sits on the Board of Directors for the FBI Citizens Academy Alumni Association and Minnesota InfraGard



## PATRICIA TOTH

*Supervisory Computer Scientist, Computer Security Division, NIST*

Patricia is a Supervisory Computer Scientist in the Computer Security Division at NIST. Her current project areas include small business cybersecurity, and cybersecurity awareness, training and education. Pat is the lead for the Small Business Outreach efforts and the FISMA team. She serves as the Chair of the Federal Information Systems Security Educators' Association (FISSEA) Technical Working Group, and Chair of the Federal Computer Security Program Managers' Forum.

Pat has worked on numerous documents and projects during her 20+ years at NIST including the Trust Technology Assessment Program

(TTAP), Common Criteria Evaluation and Validation Scheme (CCEVS), Program Chair for the National Computer Security Conference, guidance documents including SP 800-53, SP 800-53A, SP 800-16 rev 1 and the National Initiative for Cybersecurity Education (NICE). She is a recipient of the Department of Commerce Gold and Bronze Medal Awards.

Pat holds a Bachelor of Science in Computer Science and Math from the State University of New York Maritime College. She served in the Navy as a Cryptologic Officer. Pat received a Joint Service Achievement Medal and Defense Meritorious Service Medal for her work on the rainbow series of computer security guidelines while assigned to the National Security Agency.



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The 2015 Internet Security Threat Report (ISTR) provides an overview and analysis of the year in global threat activity. It is compiled using data from the Symantec™ Global Intelligence Network, which our global cybersecurity experts use to identify, analyze, and provide commentary on emerging trends in the threat landscape.

## Key Findings

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If there is one thing that can be said about the threat landscape, and cybersecurity as a whole, it is that the only constant is change. This can clearly be seen in 2014: a year with far-reaching vulnerabilities, faster attacks, files held for ransom, and far more malicious code than in previous years. The 2015 ISTR covers a wide range of the 2014 cyber threat landscape, but some areas deserve special attention.

### Cyberattackers Are Leapfrogging Defenses in Ways Companies Lack Insight to Anticipate

As organizations look to discover attackers using stolen employee credentials and identify signs of suspicious behavior throughout their networks, savvy attackers are using increased levels of deception and, in some cases, hijacking companies' own infrastructure and turning it against them. Symantec saw that advanced attackers targeted five out of six large companies in 2014, a 40 percent increase from the year before.

### Attackers Are Moving Faster, Defenses Are Not

Within four hours of the Heartbleed vulnerability becoming public in 2014, Symantec saw a surge of attackers stepping up to exploit it. Reaction time has not increased at an equivalent pace. Advanced attackers continue to favor zero-day vulnerabilities to silently sneak onto victims' computers, and 2014 had an all-time high of 24 discovered zero days. Attackers jumped in to exploit these vulnerabilities much faster than vendors could create and roll out patches. In total, the top five zero-days of 2014 were actively exploited by attackers for a combined 295 days before patches were available.

### Attackers Are Streamlining and Upgrading Their Techniques, While Companies Struggle to Fight Old Tactics

In 2014, attackers continued to breach networks with highly targeted spear-phishing attacks, which increased eight percent overall. But attackers became more efficient, deploying 14 percent less email towards 20 percent fewer targets.

On top of this, 60 percent of all targeted attacks struck small- and medium-sized organizations. These organizations often have fewer resources to invest in security, and many are still not adopting basic best practices like blocking executable files and screensaver email attachments. This puts not only the businesses, but also their business partners, at higher risk.

### Malware Used In Mass Attacks Increases and Adapts

While advanced targeted attacks may grab the headlines, non-targeted attacks still make up the majority of malware, which increased by 26 percent in 2014. In fact, there were more than 317 million new pieces of malware created in 2014, meaning nearly one million new threats were released into the wild each day. However, it's not just about quantity. Quality matters and malware authors have figured out ways to avoid detection, including by testing for virtual machines before executing their code. In 2014, up to 28 percent of all malware was "virtual machine aware." This should serve as a wake-up call to security researchers who are dependent on virtual sandboxing to observe and detect malware.

## Learn More

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For a more in-depth view of the cyber threat landscape, to understand how these changes affect you and your organization, and to learn how to best defend against these threats, download the 2015 Symantec Internet Security Threat Report at: [www.symantec.com/threatreport](http://www.symantec.com/threatreport)





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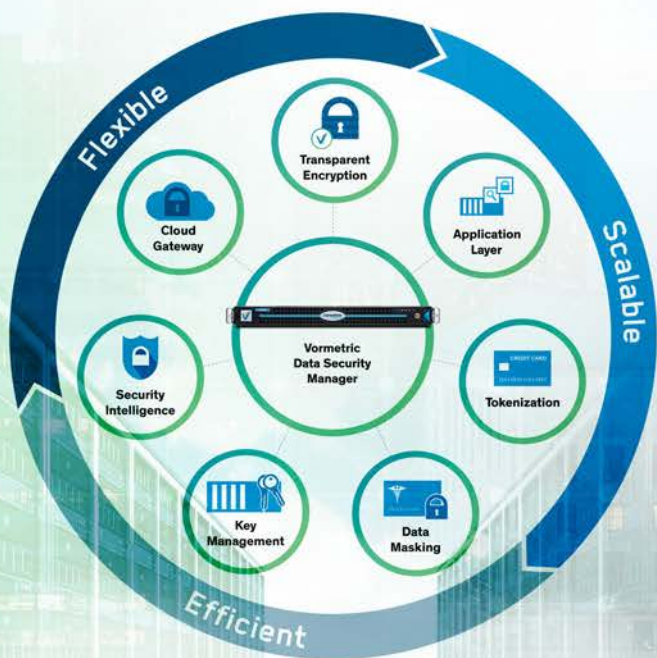
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**Eran Kahana** is a technology and intellectual property attorney with extensive experience advising clients in domestic and international settings. His practice focuses on cyber security, patent, trademark, and copyright law. Eran serves as general counsel and on the Board of Directors for the Minnesota Chapter of InfraGard, a nonprofit partnership between the FBI and the private sector dedicated to the protection of critical infrastructure and is a Research Fellow at Stanford Law School, where he writes and lectures on the legal aspects of using artificial intelligence.

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# THE LEGAL REALITY OF A CYBER SECURITY BREACH

No company is immune to a data breach. Many have already suffered one (or more), many others don't yet realize they have been breached, and for the rest (a tiny minority)—it may be just a matter of time. This is the world that we all operate within—and what we do and how we manage data security is driven most significantly by the law.

Effectively navigating this area is a complex matter. Despite numerous attempts, there is still no single federal law that regulates data security. Currently, the FTC Act is the federal watchdog when it comes to monitoring data security, and it has the authority to review and regulate any activity that affects consumer data. More specifically, the Act applies to personally identifiable information (PII). For example, if your business collects a consumer's name along with their email address or other contact information, your activity falls under the FTC's jurisdiction. Your risk of non-compliance is very real as even unknowingly not following procedures found in your privacy policy can trigger the FTC's involvement.

Data security guidelines set by standard-setting entities, such as the National Institute of Standards and Technology (NIST), may also impact the legal reality you need to observe. Courts are likely to more closely pay attention to what these and other subject matter experts are recommending. So if NIST points to certain relevant best practices for dealing with data security, and your company did not implement them, you should be prepared to convincingly explain why those practices are not relevant; this is not likely to be a trivial or inexpensive task.

With all of this in mind, it is important that you ensure that you procure from your counsel a proper information security policy (ISP) and an incident response plan (IRP). This ensures key business documents were drafted (and periodically updated) by a lawyer who took into account current statute and case law. For this to happen, your lawyer must be intimately familiar with and keep constant (daily) tabs on developments in federal and state courts, administrative bodies such as the FTC, and standards-setting organizations such as NIST.

There are countless cases (judicial and administrative) that need to be considered when drafting the ISP and IRP. The common

denominator between the ones listed below is that when companies have effective policies and practices in place, they can really save the day.

***Krottner v. Starbucks.*** When an unencrypted laptop containing PII of thousands of Starbucks employees was stolen, the court agreed that the plaintiff was "immediately in danger of sustaining some direct injury as the result of the challenged conduct."

***Clapper v. Amnesty International.*** The gold standard for disposing of cases for failure to prove sufficient harm. The U.S. Supreme Court held that plaintiff's fears of being surveilled by the government were "highly speculative" and based on a highly attenuated chain of possibilities that did not result in a certainly impending injury.

***In re Sci. Applications Int'l Corp. (SAIC) Backup Tape Data Theft Litig.*** A thief stole encrypted backup tapes containing personal medical information. The court concluded that the plaintiffs suffered no immediate injury because the thief would have needed to identify the tapes, obtain specialized equipment to read them, break the encryption, etc.

***Remijas v. Neiman Marcus.*** Despite the fact that thousands of Neiman Marcus customers had actual fraudulent charges on their credit cards following a breach, the court was not persuaded that unauthorized credit card charges for which none of the plaintiffs were financially responsible qualified as 'concrete injuries.'

***Target MDL No. 14-2522.*** An example of state law being applied extraterritorially as the judge refused to limit the scope of the Minnesota law to in-state transactions.

Contrast with ***Resnick v. Avmed.*** 1.2 million current and former Avmed members' PII was stored in unencrypted laptops that were stolen. Unlike other cases, such as *Clapper*, the court found that use of PII 10 and 14 months after the laptops were stolen was sufficient to demonstrate that identity theft was fairly traceable to the theft of the laptops containing the PII.

By Eran Kahana  
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# INDEX OF CYBER TERMINOLOGY

This list of terms was adapted from the glossary maintained by the National Initiative for Cybersecurity Careers and Studies (NICCS), a part of the Department of Homeland Security. The full list can be accessed at [niccs.us-cert.gov](https://niccs.us-cert.gov) by navigating to "Awareness > Cyber Glossary" or at [goo.gl/IM3Eii](https://goo.gl/IM3Eii).

## ACCESS CONTROL

The process of granting or denying specific requests for or attempts to:  
1) obtain and use information and related information processing services;  
and 2) enter specific physical facilities.

## ADVANCED PERSISTENT THREAT (APT)

An adversary that possesses sophisticated levels of expertise and significant resources which allow it to create opportunities to achieve its objectives by using multiple attack vectors (e.g., cyber, physical, and deception).

## AIR GAP

To physically separate or isolate a system from other systems or networks.

## ATTACK PATH

The steps that an adversary takes or may take to plan, prepare for, and execute an attack.

## ATTACK PATTERN

Similar cyber events or behaviors that may indicate an attack has occurred or is occurring, resulting in a security violation or a potential security violation.

## ATTACK SIGNATURE

A characteristic or distinctive pattern that can be searched for or that can be used in matching to previously identified attacks.

## AUTHENTICATION

The process of verifying the identity or other attributes of an entity (user, process, or device).

## AUTHORIZATION

A process of determining, by evaluating applicable access control information, whether a subject is allowed to have the specified types of access to a particular resource.

## BEHAVIOR MONITORING

Observing activities of users, information systems, and processes and measuring the activities against organizational policies and rule, baselines of normal activity, thresholds, and trends.

## BLACKLIST

A list of entities that are blocked or denied privileges or access.

## BLUE TEAM

A group that defends an enterprise's information systems when mock attackers (i.e., the Red Team) attack, typically as part of an operational exercise conducted according to rules established and monitored by a neutral group (i.e., the White Team).

## BOT

A computer connected to the Internet that has been surreptitiously / secretly compromised with malicious logic to perform activities under the command and control of a remote administrator.

## BUG

An unexpected and relatively small defect, fault, flaw, or imperfection in an information system or device.

## BUILD SECURITY IN

A set of principles, practices, and tools to design, develop, and evolve information systems and software that enhance resistance to vulnerabilities, flaws, and attacks.

## CIPHERTEXT

Data or information in its encrypted form.

## CLOUD COMPUTING

A model for enabling on-demand network access to a shared pool of configurable computing capabilities or resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.

## CONTINUITY OF OPERATIONS PLAN

A document that sets forth procedures for the continued performance of core capabilities and critical operations during any disruption or potential disruption.

## CRITICAL INFRASTRUCTURE

The systems and assets, whether physical or virtual, so vital to society that the incapacity or destruction of such may have a debilitating impact on the security, economy, public health or safety, environment, or any combination of these matters.

## CRYPTANALYSIS

The operations performed in defeating or circumventing cryptographic protection of information by applying mathematical techniques and without an initial knowledge of the key employed in providing the protection.

## DATA BREACH

The unauthorized movement or disclosure of sensitive information to a party, usually outside the organization, that is not authorized to have or see the information.

## DATA LOSS PREVENTION

A set of procedures and mechanisms to stop sensitive data from leaving a security boundary.

## DATA MINING

The process or techniques used to analyze large sets of existing information to discover previously unrevealed patterns or correlations.

## DENIAL OF SERVICE (DOS)

An attack that prevents or impairs the authorized use of information system resources or services.

## DIGITAL FORENSICS

The processes and specialized techniques for gathering, retaining, and analyzing system-related data (digital evidence) for investigative purposes.

## DIGITAL RIGHTS MANAGEMENT (DRM)

A form of access control technology to protect and manage use of digital content or devices in accordance with the content or device provider's intentions.

## **DIGITAL SIGNATURE**

A value computed with a cryptographic process using a private key and then appended to a data object, thereby digitally signing the data.

## **DISTRIBUTED DENIAL OF SERVICE (DDOS)**

A denial of service technique that uses numerous systems to perform the attack simultaneously.

## **DYNAMIC ATTACK SURFACE**

The automated, on-the-fly changes of an information system's characteristics to thwart actions of an adversary.

## **ELECTRONIC SIGNATURE**

Any mark in electronic form associated with an electronic document, applied with the intent to sign the document.

## **ENTERPRISE RISK MANAGEMENT**

A comprehensive approach to risk management that engages people, processes, and systems across an organization to improve the quality of decision making for managing risks that may hinder an organization's ability to achieve its objectives.

## **EXFILTRATION**

The unauthorized transfer of information from an information system.

## **EXPLOIT**

A technique to breach the security of a network or information system in violation of security policy.

## **EXPOSURE**

The condition of being unprotected, thereby allowing access to information or access to capabilities that an attacker can use to enter a system or network.

## **FIREWALL**

A capability to limit network traffic between networks and/or information systems.

## **HASH VALUE**

A numeric value resulting from applying a mathematical algorithm against a set of data such as a file.

## **HASHING**

A process of applying a mathematical algorithm against a set of data to produce a numeric value (a 'hash value') that represents the data.

## **ICT SUPPLY CHAIN THREAT**

A man-made threat achieved through exploitation of the information and communications technology (ICT) system's supply chain, including acquisition processes.

## **IDENTITY AND ACCESS MANAGEMENT**

The methods and processes used to manage subjects and their authentication and authorizations to access specific objects.

## **INCIDENT**

An occurrence that actually or potentially results in adverse consequences to (adverse effects on) (poses a threat to) an information system or the information that the system processes, stores, or transmits and that may require a response action to mitigate the consequences.

## **INDUSTRIAL CONTROL SYSTEM**

An information system used to control industrial processes such as manufacturing, product handling, production, and distribution or to control infrastructure assets.

## **INTEGRITY**

The property whereby information, an information system, or a component of a system has not been modified or destroyed in an unauthorized manner.

## **INTRUSION DETECTION**

The process and methods for analyzing information from networks and information systems to determine if a security breach or security violation has occurred.

## **KEYLOGGER**

Software or hardware that tracks keystrokes and keyboard events, usually surreptitiously / secretly, to monitor actions by the user of an information system.

## **MACRO VIRUS**

A type of malicious code that attaches itself to documents and uses the macro programming capabilities of the document's application to execute, replicate, and spread or propagate itself.

## **MALWARE**

Software that compromises the operation of a system by performing an unauthorized function or process.

## **MITIGATION**

The application of one or more measures to reduce the likelihood of an unwanted occurrence and/or lessen its consequences.

## **MOVING TARGET DEFENSE**

The presentation of a dynamic attack surface, increasing an adversary's work factor necessary to probe, attack, or maintain presence in a cyber target.

## **OPERATIONAL EXERCISE**

An action-based exercise where personnel rehearse reactions to an incident scenario, drawing on their understanding of plans and procedures, roles, and responsibilities.

## **PENETRATION TESTING (PEN TEST)**

An evaluation methodology whereby assessors search for vulnerabilities and attempt to circumvent the security features of a network and/or information system.

## **PHISHING**

A digital form of social engineering to deceive individuals into providing sensitive information.

## **PRIVATE KEY**

A cryptographic key that must be kept confidential and is used to enable the operation of an asymmetric (public key) cryptographic algorithm.

## **RECOVERY**

The activities after an incident or event to restore essential services and operations in the short and medium term and fully restore all capabilities in the longer term.

# INDEX OF CYBER TERMINOLOGY

## RED TEAM

A group authorized and organized to emulate a potential adversary's attack or exploitation capabilities against an enterprise's cybersecurity posture.

## REDUNDANCY

Additional or alternative systems, sub-systems, assets, or processes that maintain a degree of overall functionality in case of loss or failure of another system, sub-system, asset, or process.

## RESILIENCE

The ability to adapt to changing conditions and prepare for, withstand, and rapidly recover from disruption.

## RESPONSE

The activities that address the short-term, direct effects of an incident and may also support short-term recovery.

## RISK MANAGEMENT

The process of identifying, analyzing, assessing, and communicating risk and accepting, avoiding, transferring or controlling it to an acceptable level considering associated costs and benefits of any actions taken.

## ROOTKIT

A set of software tools with administrator-level access privileges installed on an information system and designed to hide the presence of the tools, maintain the access privileges, and conceal the activities conducted by the tools.

## SECURITY AUTOMATION

The use of information technology in place of manual processes for cyber incident response and management.

## SECURITY POLICY

A rule or set of rules that govern the acceptable use of an organization's information and services to a level of acceptable risk and the means for protecting the organization's information assets.

## SIGNATURE

A recognizable, distinguishing pattern.

## SITUATIONAL AWARENESS

Comprehending information about the current and developing security posture and risks, based on information gathered, observation and analysis, and knowledge or experience.

## SOFTWARE ASSURANCE

The level of confidence that software is free from vulnerabilities, either intentionally designed into the software or accidentally inserted at any time during its lifecycle, and that the software functions in the intended manner.

## SPOOFING

Faking the sending address of a transmission to gain illegal [unauthorized] entry into a secure system. Extended The deliberate inducement of a user or resource to take incorrect action. Note: Impersonating, masquerading, piggybacking, and mimicking are forms of spoofing.

## SPYWARE

Software that is secretly or surreptitiously installed into an information system without the knowledge of the system user or owner.

## TABLETOP EXERCISE

A discussion-based exercise where personnel meet in a classroom setting or breakout groups and are presented with a scenario to validate the content of plans, procedures, policies, cooperative agreements or other information for managing an incident.

## THREAT AGENT

An individual, group, organization, or government that conducts or has the intent to conduct detrimental activities.

## THREAT ASSESSMENT

The product or process of identifying or evaluating entities, actions, or occurrences, whether natural or man-made, that have or indicate the potential to harm life, information, operations, and/or property.

## TICKET

In access control, data that authenticates the identity of a client or a service and, together with a temporary encryption key (a session key), forms a credential.

## TRAFFIC LIGHT PROTOCOL

A set of designations employing four colors (RED, AMBER, GREEN, and WHITE) used to ensure that sensitive information is shared with the correct audience.

## TROJAN HORSE

A computer program that appears to have a useful function, but also has a hidden and potentially malicious function that evades security mechanisms, sometimes by exploiting legitimate authorizations of a system entity that invokes the program.

## VIRUS

A computer program that can replicate itself, infect a computer without permission or knowledge of the user, and then spread or propagate to another computer.

## VULNERABILITY

A characteristic or specific weakness that renders an organization or asset (such as information or an information system) open to exploitation by a given threat or susceptible to a given hazard. Extended Characteristic of location or security posture or of design, security procedures, internal controls, or the implementation of any of these that permit a threat or hazard to occur. Vulnerability (expressing degree of vulnerability): qualitative or quantitative expression of the level of susceptibility to harm when a threat or hazard is realized.

## WHITE TEAM

A group responsible for refereeing an engagement between a Red Team of mock attackers and a Blue Team of actual defenders of information systems.

## WHITELIST

A list of entities that are considered trustworthy and are granted access or privileges.

## WORK FACTOR

An estimate of the effort or time needed by a potential adversary, with specified expertise and resources, to overcome a protective measure.

## WORM

A self-replicating, self-propagating, self-contained program that uses networking mechanisms to spread itself.



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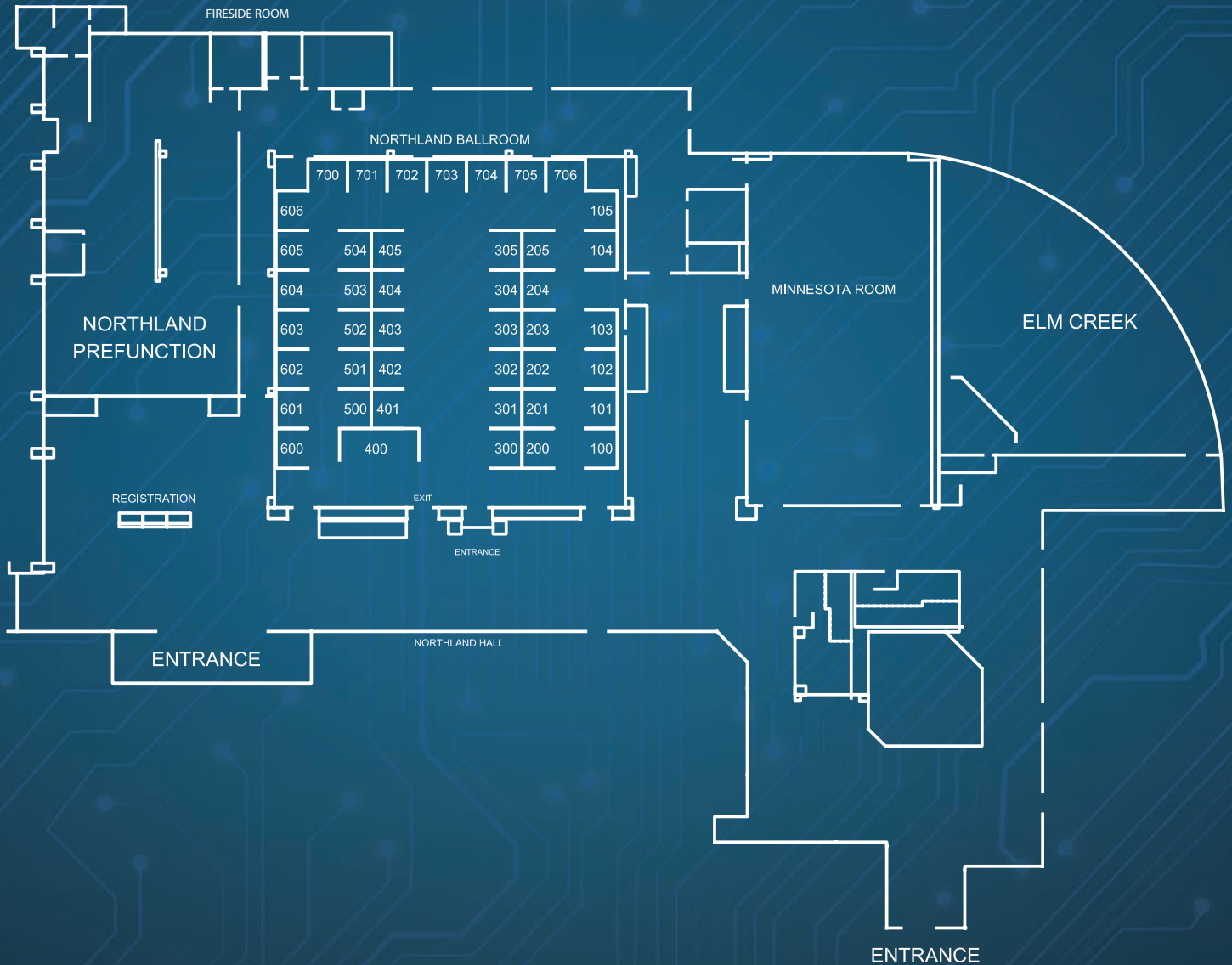
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# SUMMIT MAP



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