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CYBER SECURITY SUMMIT 2017

October 23-25 | Minneapolis Convention Center

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>200K

Unfilled Cyber Security Jobs in the U.S.

Source: CyberSeek

$80B

Global spending to fight cyber crime in 2016

Source: Gartner, Inc.

$170B

Expected Industry Growth by 2020

Source: Gartner, Inc.

Priority applications due Feb. 12. Attend an info session to learn more about MSST.

Oct. 30 | Nov. 15 & 27 | Dec. 13 | 5:30 PM to 7:00 PM

Contact TLI admissions (tli-info@umn.edu or 612-624-5747) for info.

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Maximize Your Exposure in 2018

The 2017 Cyber Security Summit would not have been possible without the efforts, commitment and expertise of all who were involved. Sign up to sponsor Cyber Security Summit 2018 today and receive a 10% discount through December 31, 2017. For more information, contact our sponsorship sales consultants:

Companies (A-M) – Jennifer Churchill 763-548-1306 jennifer.churchill@eventshows.com
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Welcome to Cyber Security Summit

The Cyber Security Summit brings together people with different viewpoints on the cybersecurity problem to hear from experts, learn about trends and discuss actionable solutions.

Michael Kearn

2017 Co-Chair
Cyber Security Summit

Eileen Manning

Executive Producer
Cyber Security Summit

Elizabeth Stevens

2017 Co-Chair
Cyber Security Summit

Thank you for joining us! The past year has brought a steady stream of cybersecurity news and reaffirmed the need for gatherings like this, where we can share information and work toward solutions.

This event marks our seventh annual Summit. The overarching cybersecurity message back in 2011 was "it's not if, but when." Today, personally identifiable information is stolen at a mindboggling rate. Denial of service interruptions and ransomware continue to disrupt critical operations for many organizations. The melding of technology and device brought IoT to the common acronym lexicon, and recent headlines indicate potential election manipulation by a nation state. We live in interesting times indeed and our work for the foreseeable future requires collaboration across sectors to solve these problems.

Tactically speaking, patch management and maintaining critical systems remains a significant challenge. Attributing and addressing threat vectors is a complex web of risk. Controlling access with passwords, biometrics, and one-time authorization codes while balancing usability with our need for security adds encumbrance to an already complex equation.

The "bad actors" don't discriminate any longer. Within the past few years, businesses and organizations of various sizes and sectors have felt the impact of ransomware. Small businesses are being targeted by adversaries more frequently, and with greater success. How well are they positioned to defend their assets in an environment where skilled security resources are scarce? We have partnered with the Small Business Administration and Better Business Bureau to bring you the Cyber Security for Small and Mid-Size Business forum again this year, for those of you operating in that space to share ideas, learn from each other and hear from some of the best in the profession.

The cadence and tempo of change in our respective industries keep us all busy, and we appreciate that you have taken the time to be here, build relationships, share insights and discover resources. Each of you contributes to this conversation and advances the mission to make the world a more secure place.

The Cyber Security Summit is the culmination of input from our advisory board and the support from our sponsors. Please take time to visit with them and learn about the resources available. We've built a collaborative forum to share ideas, but to perpetuate the momentum we need your input as well. Please take a moment and provide your voice for next year's event when you receive the survey.

Contents

Questions?

Find help from staff at the registration desk in the front of the expo hall.

Network: cyber security summit
Password: css2017!

Highlights

Continuing Education Credits

Summit participation fulfills up to 12 hours of continuing education credits, depending on the organization.

Networking

Build relationships with delegates from 29 states and 8 countries.

Expo Reception

Network with industry thought leaders and our fantastic exhibitors at our Expo Reception after the Summit on Tuesday.

Mobile Survey

This year we will utilize a mobile survey platform to solicit real time feedback from the audience. When the poll is active, respond at PollEV.com/css17 OR text css17 to 37607.

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Tuesday HH meetup @ The Local

Whether you are in from out of town or just want to keep the conversation going, join us at The Local (4 blocks away) on Tuesday from 6:30-9 p.m.

Cyber Bytes™

These quick-hit presentations deliver information on today's hottest topics in a condensed format that gets right to the point.

Security Solutions Stage

Hear additional presentations and interviews with industry experts on our Security Solutions Stage, located within the Expo Area.

Sponsored by: Centrify THE BREACH STOPS HERE

2018 VIP All Access Pass Giveaway

Everyone who follows our Twitter or Facebook page during the Summit and posts with the hashtag #CSSMN17 will be entered to **win a free VIP All Access Pass to Cyber Security Summit 2018 ($999 value)**. Post on both Facebook and Twitter to be entered twice!

Michael Kearn
U.S. Bank

Elizabeth Stevens
UnitedHealth Group

Jill Allison
ASIS International

Massoud Amin
University of MN TLI

Bonnie Anderson
HCMC

Michele Azar
Retail Executive

Anne Bader
International Cybersecurity Dialogue

Ken Barnhart
Highground Cyber

John Bonhage
InfraGard

Andrew Borene
Booz Allen Hamilton

Chris Buse
MNIT Services

Loren Dealy Mahler
Dealy Mahler Strategies

Emily Duke
Amplifon Americas

Antonio Enriquez
DHS

Steen Fjalstad
Midwest Reliability Organization

Mary Frantz
EKP, LLC

Sam Grosby
Wells Fargo

Heather Hanscom
SUPERVALU INC.

Col. Stefanie Horvath
MN ARNG

Bob Hoschka
Computex

Brian Isle
Adventium Labs

Mike Johnson
University of MN TLI

Faisal Kaleem
Metropolitan State University

David La Belle
NorSec Foundation

Michael Larson
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Jack Lichtenstein
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Eileen Manning
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Beacon Information Security, LLC

Jerrod Montoya
OATI

Dave Notch
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Stefan Pittinger
CenturyLink

Frank Ross
General Mills

James Ryan
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Glenn Sanders
DHS

Phil Schenkenberg
Briggs and Morgan, P.A.

Melissa Seebeck
Deluxe Corporation

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Scott Singer
PaR Systems, Inc.

David Stavseth
Akamai

Catharine Trebnick
Dougherty & Co. LLC

Chris Veltsos
Dr. InfoSec

Kristi Yauch
TCF Bank

2017 Committees

CISO

Mike Johnson, Technological Leadership Institute;** Mary Frantz, EKP; Tina Meeker, Beacon Information Security; Dave Notch, Medtronic; Chris Olive, Vormetric/Thales

Glossary of Terms

Steen Fjalstad, Midwest Reliability Organization; David La Belle, NorSec Foundation

Healthcare/Med Device

Brian Isle, Adventium Labs;** Bob Bennett, HealthEast; Todd Carpenter, Adventium Labs; Emily E. Duke, Amplifon Americas; Ken Hoyme, Boston Scientific; William Scandrett, Allina; Michael Seeberger , Boston Scientific; Chris Tyberg, St. Jude Medical; Kristi Yauch, TCF

Investment Town Hall

Catharine Trebnick, Dougherty & Company LLC;** Anne Bader, The International Cybersecurity Dialogue; David La Belle, NorSec Foundation; Tina Meeker, Beacon Information Security; Bill Strub, NaviLogic

Sponsorship Committee

Jill Allison, Best Buy; Andrew Borene, Booz Allen Hamilton; Bob Hoschka, Computex Technology Solutions; Tina Meeker, Beacon Information Security; Dave Notch, Medtronic

PR

Anne Bader, The International Cybersecurity Dialogue; Loren Dealy Mahler, Dealy Mahler Strategies; Bob Hoschka, Computex Technology Solutions; Michelle Knoll, Technological Leadership Institute; Melissa Seebeck, Deluxe Corporation

Program & Speaker Review

Bonnie Anderson, HCMC; Anne Bader, The International Cybersecurity Dialogue; Ken Barnhart, Highground Cyber; Andrew Borene, Booz Allen Hamilton; Steen Fjalstad, Midwest Reliability Organization; Stefanie Horvath, MN Army National Guard; Mike Kearn, US Bank; Dave Notch, Medtronic; David Stavseth, Akamai; Elizabeth Stevens, UnitedHealth Group; Kristi Yauch, TCF Bank

Registration Ambassadors

Bob Hoschka, Computex Technology Solutions; Melissa Seebeck, Deluxe Corporation

Presentation Review

David Stavseth, Akamai; Elizabeth Stevens, UnitedHealth Group

Registration Committee

Michele Azar, Fortune 50 Global e-Commerce Multichannel Retail Executive; Anne Bader, The International Cybersecurity Dialogue; Chris Buse, MNIT Services; Loren Dealy Mahler, Dealy Mahler Strategies; Bob Hoschka, Computex Technology Solutions; Mike Johnson, Technological Leadership Institute; Faisal Kaleem, Metropolitan State University; Michael Kearn, U.S. Bank; Eileen Manning, The Event Group, Incorporated; Jerrod Montoya, OATI; Dave Notch, Medtronic; Melissa Seebeck, Deluxe Corporation; Elizabeth Stevens, UnitedHealth Group; Chris Veltsos, Dr. InfoSec; Kristi Yauch, TCF

Security Solutions Stage

Loren Dealy Mahler, Dealy Mahler Strategies

Small Business

Phil Schenkenberg, Briggs and Morgan, P.A.**; Loren Dealy Mahler, Dealy Mahler Strategies; Lisa Jemtrud, Better Business Bureau of Minnesota and North Dakota; Twila Kennedy, Small Business Administration; Cyrus Malek, Briggs and Morgan, P.A.

International Committee

Anne Bader, The International Cybersecurity Dialogue; Stefanie Horvath, MN Army National Guard; Mike Johnson, Technological Leadership Institute

Legislative & Government Outreach

Chris Buse, MNIT Services; Mary Frantz, EKP; Jack Lichtenstein, JDL Advisory, LLC; Phil Schenkenberg, Briggs and Morgan, P.A.

Committee Meeting Hosts

November: Elizabeth Stevens, UnitedHealth Group; December: Catharine Trebnick, Dougherty & Company LLC; January: Phil Schenkenberg & Cyrus Malek, Briggs and Morgan, P.A.; February: Tina Meeker, Best Buy; March + April: Eileen Manning, The Event Group, Incorporated; May: Dave Notch, Medtronic; June: Mike Johnson, Technological Leadership Institute; July: Mary Frantz, EKP; August: Jerrod Montoya, OATI; September: Tina Meeker, Best Buy October: Frank Ross, General Mills

**Committee Chair

Specialty Events

VIP Reception

Oct.23 @5:15 PM

MNIT Breakfast

Oct.24 @7:00 AM | MINNESOTA IT SERVICES

CISO Luncheon

Oct.24 @12:15 PM | THALES

FBI Breakfast

Oct.25 @7:15 AM

CEO Breakfast

Oct.25 @7:15 AM | CenturyLink Business

Future-Proofing Medical Device Security

Monday, October 23 | 1:00 - 5:15 PM

The Cyber Security Summit was founded in 2011 to bring together thought leaders around the important topic of security. Since that time, it has annually hosted representatives from industry, government and academic interests for a high-level strategic view of security issues.

The goal of this new event is to build awareness and bring a similar focus to the medical device industry. The Twin Cities provides a perfect venue because of its concentration of health care and medical device leaders.

Agenda

1:00 – 1:15 PM	Welcome and Setting the Stage
1:15 – 2:15 PM	Threat Briefing: Med Device & Healthcare Delivery Organization-specific Speakers: Christopher Golomb, FBI; Ken Hoyme, Boston Scientific; Jay Radcliff, Rapid7; Billy Rios, WhiteScope
2:15 – 2:30 PM	Q&A
2:30 – 3:30 PM	Panel: Moving Toward Future -Proofing Medical Device Security Speakers: Todd Carpenter, Adventium Labs; Stephanie Domas, Battelle DeviceSecure® Services; Dan Lyon, Synopsys Software Integrity Group
3:30 – 4:00 PM	Break
4:00 – 5:00 PM	Panel: Building the Future – Standards and Resources Speakers: Seth Carmody, FDA; Justin Heyl, Underwriters Laboratories; Ken Hoyme, Boston Scientific
5:00 – 5:15 PM	Concluding Remarks

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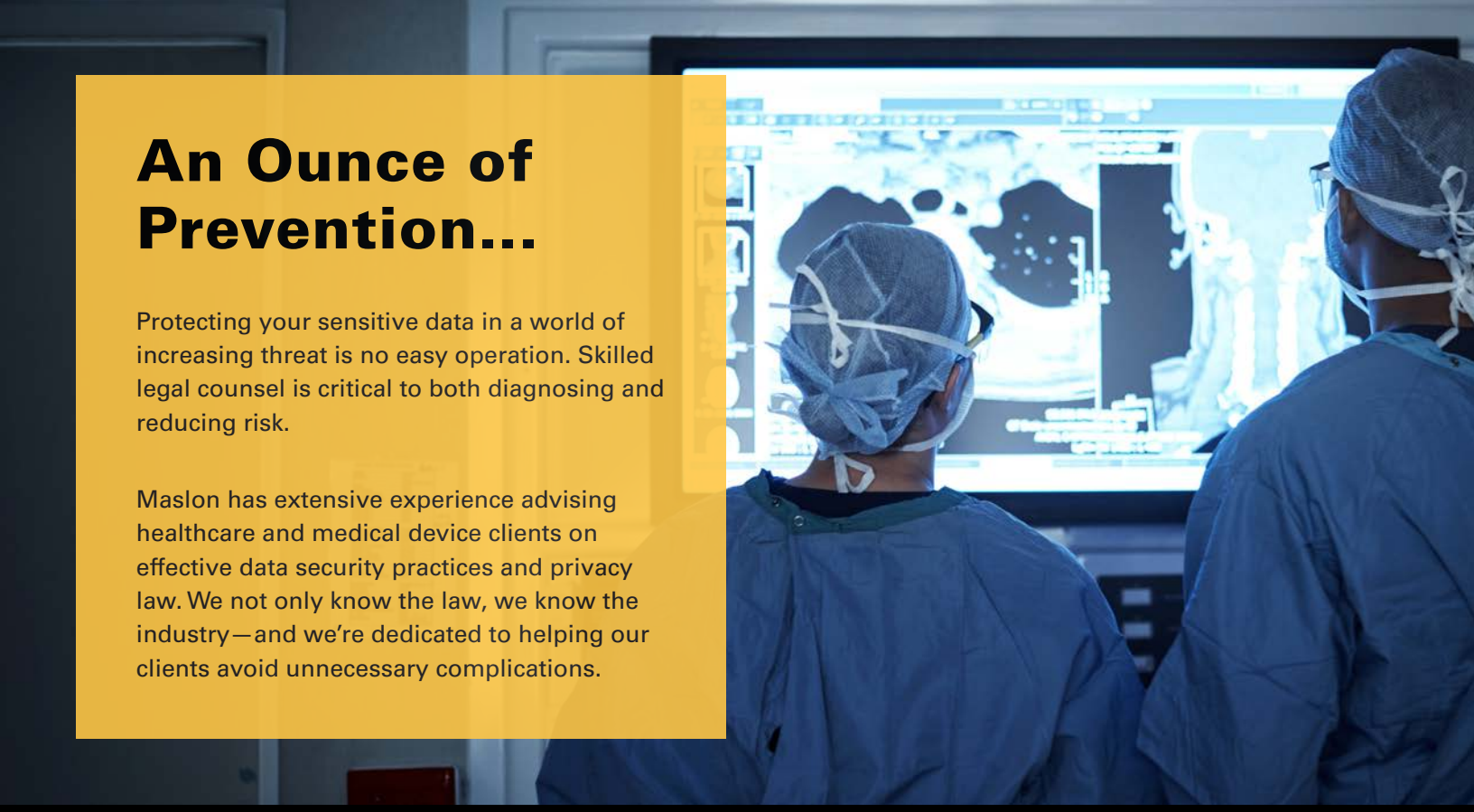

An Ounce of Prevention...

Protecting your sensitive data in a world of increasing threat is no easy operation. Skilled legal counsel is critical to both diagnosing and reducing risk.

Maslon has extensive experience advising healthcare and medical device clients on effective data security practices and privacy law. We not only know the law, we know the industry—and we're dedicated to helping our clients avoid unnecessary complications.

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Interested in learning more and contributing to this industry/academic partnership?

Come meet us at booth # 508

Research Resource

An initiative where industry or academic experts will guide students conducting applied cybersecurity research

Learn how to become part of the MnC3 and help us achieve our goals

Mission

To address Minnesota's cybersecurity workforce needs, and to assist Minnesota businesses in handling cyber risks.

Goals

1. To provide Minnesota college & university students with the knowledge, skills, and abilities needed to transition into successful cybersecurity professionals.
2. To facilitate continuing education and training of the existing workforce for high-demand skills in cyber-related occupations, for employees both with and without IT/security background.
3. To raise awareness of cyber risks faced by small/medium businesses, and provide resources to improve their cybersecurity and cyber-resilience.
4. To advance awareness of cybersecurity issues (cyber safety, cyber hygiene) in the community at large.
5. To grow interest in cybersecurity careers among students in grades 7-12.
6. To conduct and support applied research to advance the field of cyber security.

Investment Town Hall

Monday, October 23 | 2:00 - 5:15 PM

The 2nd Annual Investment Town Hall includes sessions on the changing threat landscape and how it impacts cyber security start-ups, the changing public market for established appliance and software vendors, and the future of the space through the lenses of internal development or acquisition. Topics span legacy vendor replacement through next-generation techniques, the emerging role of blockchain and cryptocurrencies, and insight into the strategic planning behind capital raising.

The day culminates with a panel of accredited investors and thought leaders, including hedge fund portfolio managers, sell-side research analysts, and seed investors.

Agenda

2:00 – 2:15 PM Update on Cyber Security Marketplace From IPO to Seed Funding

Speaker: Catharine Trebnick, Dougherty & Company LLC

2:15 – 3:00 PM Discussion on Next-Generation Techniques Replacing Legacy Software Tools

Speaker: Larry Whiteside Jr., Whiteside Security LLC

3:00 – 3:45 PM M&A Opportunities with Security

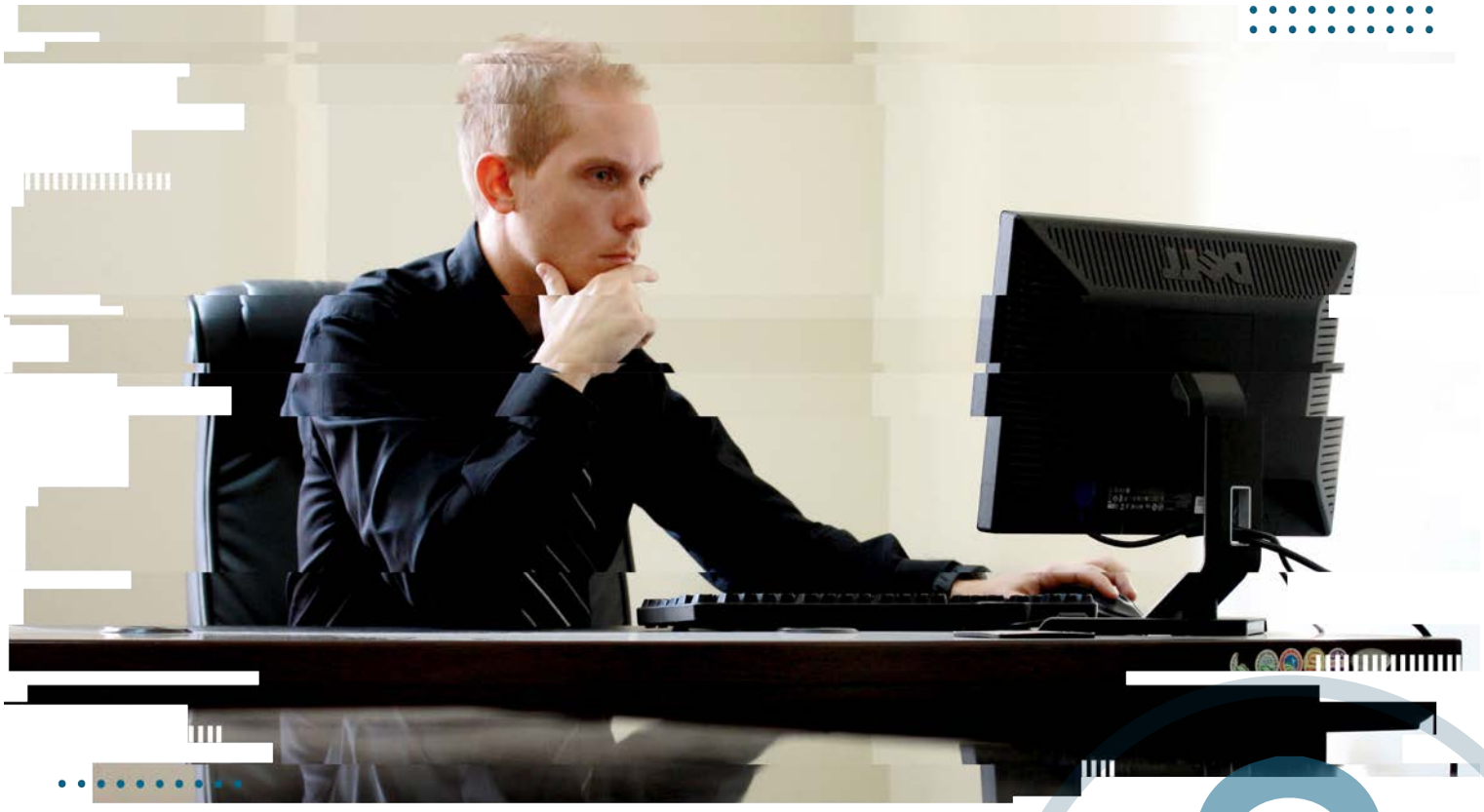
Speaker: Joel Fulton, Splunk

3:45 – 4:30 PM Discussion on Defense M&A

Speaker: Bob Kinder, SixGen, LLC

4:30 – 5:15 PM Investing Through the Lens of Accredited Investors and Thought Leaders

Panel Moderators: Bill Strub, Navilogic; Tina Meeker, Beacon Information Security, LLC
Panelists: Joel Fulton, Splunk; Bob Kinder, SixGen, LLC; Larry Whiteside Jr., Whiteside Security LLC



Demystifying DevSecOps with VERACODE

Monday, October 23 | 2:30 - 5:15 PM

This year's Tech Talks are designed for Security & Development professionals interested in learning more about Secure DevOps and how to build security into their platforms from Day 1.

Agenda

2:30 – 3:15 PM DevOps – Security's Big Opportunity

As the shift to DevOps continues to accelerate, how can security teams harness the power of this change and build a strategic vision for their business?

Speaker: Pete Chestna, Veracode

3:15 – 4:00 PM Planning For A Responsive AppSec Program

AppSec programs have had to adapt to changes in software development and management philosophies as Agile, and now DevOps, have become more popular in development organizations. As your organization moves to DevSecOps, how can you plan to be resilient and adaptable to future change?

Speaker: Darren Meyer, Veracode

4:00 – 4:15 PM BREAK

4:15 – 4:45 PM Veracode's DevSecOps Journey

This discussion will focus on how Veracode has worked to harness the power of DevSecOps and will include some real life examples of success with our program.

Speaker: Chris Eng, Veracode

4:45 – 5:15 PM Open Q+A

Speakers: Pete Chestna, Chris Eng and Darren Meyer of Veracode

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MINNESOTA IT SERVICES

Cyber Security for Small and Mid-size Businesses

Tuesday, October 24 | 1:30 - 5:00 PM

Many normal business transactions can open the door to cyber theft or attack. If your business is not big enough to have dedicated resources to manage security strategies, this is the perfect opportunity to learn more about best practices for keeping your data secure and responding after you've been compromised.

Agenda

1:30 – 1:45 PM	Welcome and Available Resources	Speaker: Nancy Libersky, SBA
1:45 – 2:15 PM	Cyber Security for Business Leaders	Speaker: Hala Furst, DHS
2:15 – 2:45 PM	Cyber Case Studies and Legal Considerations	Speakers: Cyrus Malek, Briggs and Morgan PA; Phil Schenkenberg, Briggs and Morgan PA
2:45 – 3:15 PM	Risk Assessments and Being Prepared for an Attack	Speakers: Yan Kravchenko, Atomic Data; Jim Wolford, Atomic Data
3:15 – 3:45 PM	BREAK IN EXPO AREA	
3:45 – 4:00 PM	Having a Cyber Communications Plan	Speaker: Loren Dealy Mahler, Dealy Mahler Strategies
4:00 – 4:30 PM	What You're Up Against: Real Life Examples from a Small Business Owner	Speaker: Eileen Manning, The Event Group, Incorporated
4:30 – 5:00 PM	Q&A with Panel of Experts	

Sponsor: BRIGGS AND MORGAN PROFESSIONAL ASSOCIATION

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Monday, October 23

1:00 - 5:15 PM	**Future-Proofing Medical Device Security -** See page 8 for details.
2:00 - 5:15 PM	**2nd Annual Investment Town Hall -** See page 11 for details.
2:30 - 5:15 PM	**Demystifying DevSecOps with Veracode -** See page 12 for details.
5:15 - 7:00 PM	**VIP RECEPTION (Invitation Only)**

Tuesday, October 24

7:00 - 7:45 AM	MINNESOTA IT SERVICES **Student Breakfast** (Invitation only) *Chris Buse, MNIT Services, State of Minnesota*
8:00 - 8:30 AM	**Welcome and Opening Remarks -** *Michael Kearn and Elizabeth Stevens, 2017 Summit Co-Chairs*
8:30 - 9:00 AM	**Year in Review ///** Matt will share insights and experiences with key cyber security issues, ranging from workforce challenges and opportunities to the emerging threat landscape. *Matt Loeb, ISACA*
9:00 - 9:30 AM	**The Dark Web ///** Take a journey into the underbelly of the Internet, the Dark Web. We'll look at recent breaches, types of breaches, impacts of breaches, and motivation for breaches. The journey continues with an exploration of the "dark web" and the black markets contained in it. The simplicity and ease of access is astounding and will instill fear, uncertainty and doubt. Prepare to have some FUD. *Scott Sweren, AT&T*
9:30 - 9:50 AM	**CYBER BYTE™ : Real-Life Lessons Learned** /// Hala will provide examples of how engagement with the Department of Homeland Security NCCIC and the government in general can help companies respond or recover from incidents. She will also provide a high-level overview of the threat landscape, current best practices, free tools and resources for businesses and state and local governments, the government's progress on the recent Cybersecurity Executive Order, and any potential implications for the private sector. *Hala Furst, Department of Homeland Security*
9:50 - 10:00 AM	**Welcome -** *Governor Mark Dayton*
10:00 - 10:30 AM	**BREAK IN EXPO AREA**
10:30 - 10:50 AM	**CYBER BYTE™ : Phishing Trends ///** Learn how people in your organization are targeted by cyber criminals, hackers and even state-sponsored actors. You'll also learn how email is at the heart of this evolving threat. *JP Blaho, Mimecast*
10:50 - 11:10 AM	**CYBER BYTE™ : Compliance – What it Really Means** /// Historically, Compliance ≠ Security. However, new and updated mainstream operating control frameworks such as FedRAMP dictate aggressive and downright onerous Continuous Monitoring Programs. This presentation will discuss how achieving full conformity with the letter and intent of these standards is bringing us closer to realizing the promise of Compliance = Security. *Rich Banta, Lifeline Data Centers*
11:10 - 11:50 AM	**Compliance is not a Cybersecurity Strategy** /// Does compliance make us more secure – and how do we keep innovation and creativity thriving within a compliance structure? *Moderator: Mike Johnson, University of Minnesota TLI* *Panelists: Rich Banta, Lifeline Data Centers; Steen Fjalstad, Midwest Reliability Organization; Kevin Johnson, Secure Ideas*

11:50 AM - 12:10 PM	**Breaches & Sensitive Documents – Prepare, Respond, and Protect Yourself** /// Cybersecurity – and how to prepare and respond to a breach and protect sensitive documents under a company's control – has become a critical consideration for corporate executives in managing risk. Evan Wolff, partner and co-chair of Crowell & Moring's Privacy & Cybersecurity Group, will walk you through the anatomy of a data breach and describe legally compliant industry best practices and government standards that may help mitigate the potential risks. Mr. Wolff will also highlight the top ten steps that executives may take, in working with other key personnel, to improve their companies' cybersecurity and privacy posture. *Evan Wolff, Crowell & Moring LLP*
12:15 - 1:15 PM	THALES **CISO Luncheon** (Invite Only; Must be a CISO, CIO or CTO to attend) *Brent Lassi, Carlson Wagonlit Travel; Chris Olive, Thales e-Security; Kathy Orner, Carlson Wagonlit Travel*
12:15 - 1:15 PM	**LUNCH IN EXPO AREA**
1:30 - 5:00 PM	**Cyber Security for Small and Mid-size Businesses -** See page 15 for details.
1:30 - 2:00 PM	**Anatomy of an Attack** /// Brad Antoniewicz leads Cisco Umbrella's security research analyst team. He is an adjunct professor teaching Vulnerability Analysis and Exploitation and a Hacker in Residence at NYU's Tandon School of Engineering. Brad is also a contributing author to both the "Hacking Exposed" and "Hacking Exposed: Wireless" series of books. *Brad Antoniewicz, Cisco*
2:00 - 2:45 PM	**Got Spies in Your Wires?** /// This talk will discuss the ever-evolving cyber threat landscape from the speaker's perspective as an incident responder. The talk will discuss some of the more significant threat groups and activities from a handful of countries as well as the professionalization of the hacking industry as a whole. The threats the security community face today are quite different from the threats we faced even five years ago. We've witnessed a natural evolution to a more professional cyber criminal landscape based on both monetary and political factors. *Marshall Heilman, FireEye*
2:45 - 3:15 PM	**CYBER BYTE™ : Common Attack Vectors with Quick-Win Mitigations** /// This brief talk will discuss the most common ways our penetration testing team gains privileged access both internally and externally along with simple mitigations which would prevent access over 90% of the time. *Slade Griffin, Contextual Security Solutions*
3:15 - 3:45 PM	**BREAK IN EXPO AREA**
3:45 - 4:15 PM	**CYBER BYTE™ : The Intersection of the Connected Worker and the Internet of Things** /// The smartphone is the primary communication and computing device for many of today's consumers. This dependency on mobile devices will translate into a majority of enterprise computing outside of traditional PC computing. This will have the greatest impact with on campus (non-office-based) and off campus mobile workers who are becoming increasingly connected by rich real time communications powered by mobile applications running on wearable devices such as smart glasses. The rise of IoT in the enterprise, or the Enterprise of Things, will allow these workers to instantly connect with assets in the field to gain immediate understanding of the situation around them. *Chris Greco, BlackBerry*
4:15 - 4:45 PM	**Securing Critical Infrastructure in an Uncertain World** /// A look at how to protect our critical infrastructures. *Dr. Massoud Amin, University of Minnesota TLI*
4:45 - 5:00 PM	**Securing Meet the Threat Review & Beat the Threat Preview** /// Review key points from Day 1, preview Day 2 and promote the value of building your network over cocktails at the Networking Reception *Michael Kearn and Elizabeth Stevens, 2017 Summit Co-Chairs*
5:00 - 6:00 PM	**NETWORKING RECEPTION IN EXPO AREA**

Wednesday, October 25

7:15 - 8:15 AM	**CEO Breakfast (Invitation-Only; Complimentary for VIP Access Pass Holders)** *Mark Lanterman, Computer Forensic Services*
7:15 - 8:15 AM	**SUMMIT BREAKFAST**
7:15 - 8:15 AM	**FBI Career Opportunities Breakfast ///** Have you ever considered a career with the FBI? Join us for this special breakfast during the 2017 Cyber Security Summit. Representatives from the Bureau will be on hand to speak about the application process, IT, cyber and tech careers in the FBI. They will also take any questions people have. *Mike Krause, FBI*
8:30 - 8:45 AM	**Welcome and Opening Remarks -** *Eileen Manning, Summit Executive Producer*
8:45 - 9:30 AM	**Combating Short- and Long-Term Cyber Threats ///** Dr. Stacey Dixon joined the Intelligence Advanced Research Projects Activity (IARPA) as its Deputy Director in January 2016. She will speak on near-term cyber issues such as supply chain security, trusted component manufacturing, and cyber threat forecasting and long-term issues like super computing, artificial intelligence and the coming era of digital/biological threats. *Dr. Stacey Dixon, IARPA*
9:30 - 10:00 AM	**When the Levee Breaks** /// The shiny new product is not always the most effective solution to mitigate risk. In fact, more companies are breached because they had fundamental vulnerabilities in their security posture and were exposed due to those cracks in their foundation. This presentation will discuss what many of us in our profession consider the basic building blocks of an effective security program, in addition examining how current technologies can help create the stronger foundation all of us are seeking. A house of sand will never stand and layering next gen solutions on top of a program with a weak foundation won't either. Learn how accurate risk assessments, threat modeling and layering controls appropriately can help you set a firm foundation to build your own program on. We don't always need a new set of tools, but sometimes a new or different perspective can make the biggest difference in securing our organizations. *Michael Kearn, U.S. Bank; 2017 Summit Co-chair*
10:00 - 10:30 AM	**BREAK IN EXPO AREA**
10:30 - 11:00 AM	**Maintaining Cyber Readiness in an Evolving Threat Landscape ///** It's a fact. Threat actors are becoming more advanced—and more successful. And your attack surface is rapidly expanding through the cloud, mobile, and the Internet of Things (IoT). Prevention-based tactics are no longer enough to keep your company safe. *Brent Benson, LogRhythm*
11:00- 12:00 PM	**Incident Response Panel ///** Panelists from industry as well as government will lead this discussion of the federal incident response protocol. The discussion will be moderated by Lou Stephens, who prior to his current role was special agent in charge for the U.S. Secret Service in Minneapolis from 2011 to 2017 and managed the agency's protective and investigative operations throughout Minnesota, North Dakota and South Dakota. *Moderator: Lou Stephens, Sea Foam Corporation* *Panelists: Michael J. Krause, FBI; Lisa Beth Lentini, Deluxe Corporation; Brad Maiorino, Booz Allen Hamilton; Timothy Rank, U.S. Attorney's Office*
12:00 - 1:15 PM	**LUNCH IN EXPO AREA**
1:15 - 2:00 PM	**The Greatest Gift – Making Attacks Expensive** /// How many times have you heard the phrase "Defenders have to get security right every time, an attacker only has to get it right once"? In this presentation, we will explore the phases of a cyber attack, identifying and taking advantage of those stages that are more expensive for the attacker than the defender. By changing our perceptions and understanding of the inevitable attack, defenders can develop capabilities to gain an upper hand against the attackers. This presentation will demonstrate actionable processes to shift the power to the defense, and making attacking expensive and difficult for attackers. *Bill Swearingen, CenturyLink*

2:15 - 3:00 PM	**Strengthen Your Cyber Security Posture: What to Look for in an MSSP** /// Faisal Bhutto, VP of Cybersecurity for one of the nation's most recognized Cloud & Managed Services Provider, explains how a cybersecurity program conversation should go beyond compliance and regulations. He will walk through the type of discipline needed to have an effective cybersecurity program for CIOs and CISOs and explore build vs. buy scenarios when it comes to holistic cybersecurity program implementation. *Faisal Bhutto, Computex Technology Solutions*
3:00 - 3:30 PM	**BREAK IN EXPO AREA**
3:30 - 4:00 PM	**CYBER BYTE™ : Information Sharing to Better Protect Companies in the U.S. ///** Drew Evans of the Minnesota Department of Public Safety will discuss cyber security, what it means for our state, and provide tips on identifying threats and sharing information. *Drew Evans, The Bureau of Criminal Apprehension*
4:00 - 4:45 PM	**Running the Defense: Securing the Super Bowl** /// Analytics brings the ability for both offensive and defensive cyber protection: Think football. The 2017 Summit brings forward a central theme around what analytics can do for cyber security. The very concept of using intelligence, big data and analytics brings a new thought process and has a new set of buzz words and concepts to learn. In fact, it really is a lot like football. We will break down the concepts of analytics and illustrate them in terms of the most watched game in the world. We will also share real life examples, planning and results from securing Super Bowl 50 in San Francisco. *Jim Libersky, Barrier1*
4:45 - 5:00 PM	**An Overview – Practical Takeaways** /// After two days of in-depth presentations, our co-chairs share some of the takeaways from the 2017 Summit. *Michael Kearn and Elizabeth Stevens, 2017 Summit Co-Chairs*

Upcoming Industry Events

NOVEMBER 15

MHTA - MINNESOTA TEKNE AWARDS

Minneapolis Convention Center @4:30 PM
Each year the Tekne Awards shine a spotlight on Minnesota's technology industry. Drawing our state's most influential business, political leaders and individuals, the Tekne Awards honor advancement in technology.

NOVEMBER 16

ISACA MINNESOTA - BUSINESS OF SECURITY PRESENTATION

Land O'Lakes Conference Center @3:00 PM
Attendees will learn how to measure and communicate security program performance and associate this performance with identified risks.

NOVEMBER 20

INFRAGARD MINNESOTA MEMBERS ALLIANCE MEMBERSHIP MEETING

Cargill - Hopkins Location
The Infragard Minnesota Member Alliance is an FBI-sponsored partnership program focused on critical infrastructure protection. Apply for your membership at www.infragard.org.

DECEMBER 19

ISSA MINNESOTA - CHAPTER MEETING

Ewald Conference Center @1:00 PM
The Information Systems Security Association is a not-for-profit, international organization of information security professionals and practitioners. Doors open at 1:00PM for networking with a 1:30PM meeting start.

APRIL 26 | JULY 26 | OCTOBER 22

NEW 2018 SERIES - CYBER SECURITY FOR MED-DEVICE + HEALTHCARE

Medical device security is such an important topic that we are launching a series of events in 2018 to discuss the issues and explore possible solutions

Check cybersecuritysummit.org for updates

ABOUT THE AUTHOR:

ERAN KAHANA is a cybersecurity and intellectual property lawyer as well as a Fellow at Stanford Law School. He counsels clients on a wide variety of matters related to cybersecurity, technology law, trademarks, patents, and copyright issues. Eran also serves in a variety of cybersecurity thought-leadership roles and works closely with the FBI, Department of Justice, Secret Service, and colleagues from the private and academic sectors to set, promote, and sustain cybersecurity best practices. Eran serves as both general counsel and as a director on the Executive Board of InfraGard (MN Chapter).

eran.kahana@maslon.com

MASLON LLP is a full-service commercial law firm in Minneapolis, offering a depth of experience in the areas of Business & Securities, Litigation, and Financial Services, with a supporting practice focused on Cyber Security Law.

Maslon's Cybersecurity Law counselors offer deep knowledge and experience regarding legal, regulatory, and industry standards. Clients receive proactive, practical advice that will help protect their company's data as well as ensure legal compliance.

MASLON

Effective Leadership: The Key to Building and Maintaining a Reasonable Cybersecurity Regime

Healthcare sector cyber incidents seem to garner less media attention than the headline-grabbing breaches featuring powerful malware (Stuxnet), spies (China, Russia), and malicious state actors (North Korea), but that in no way reflects the severity of the problem. In 2015, Anthem got hit with the largest attack to date, one in which 78.8 million patient records were compromised. The most significant damage, however, is caused by the steady stream of small cyber incidents that impact both individual patients and the entire health sector ecosystem.

One way to gauge the magnitude of these breaches is to examine the relevant statistics. The Department of Health and Human Services' Office of Civil Rights (OCR), which is tasked with enforcement of healthcare breaches, identifies healthcare cyber incidents reported to and investigated by OCR on a rolling 24-month basis on its website. There have been 348 incidents collected over the past two years—nearly half (41%) of the incidents were classified as a "Hacking/IT incident" and 36% as "Unauthorized Access/Disclosure." Following in third place was "Theft," garnering 18% of the incidents. In terms of data-breach localization, the "Network Server" category bore 27% of the cyber-attacks and email accounted for 18%.

So, what is the problem here? These statistics are not the product of a dearth of regulations, nor the lack of standards—there are plenty of both. It's not even the case that the law makes compliance difficult. It does not. Bullet-proof security is not a legal precondition for avoiding liability. In *United States ex rel. Sheldon v. Kettering Health Network*, for example, the court held that being compliant with healthcare data security regulations "does not equate with having impenetrable cybersecurity defenses."

The vast majority of cybersecurity breaches, including those tracked by the OCR, are rooted in: 1) dysfunctional leadership; 2) lack of relevant corporate wherewithal and knowledge (a close relative to the first item); 3) absence of proper policies and procedures; 4) sporadic, non-existent, or ineffective training of all relevant users (not just employees); and 5) negligent or malicious employees. It is perhaps no surprise then that building and maintaining an effective cybersecurity regime is a task that often stubbornly evades effective execution, despite regulations and industry standards.

An integral part of the solution is to properly understand the "how-to" component of building and maintaining a legally-reasonable cybersecurity regime. This begins with recognizing that this it is not a journey from A to B, but a continuous cycle, one that involves a complex eco-system. The cycle includes countless efforts, some big, some small—some take a long time to work through and some are just a quick shot. Technology, business processes, best practices, and legal principles must sync to enable this regime to work through its life cycle in a consistent way, every time.

To illustrate this a bit further, consider the benefits of implementing emerging technologies with current cybersecurity best practices. For example, blockchain sports cryptographic controls along with decentralized verification that uses a consensus-based, transaction-entry voting system to guaranty data integrity like no other database. As such, blockchain promises to play a key role in reducing fraud. Though HIPAA makes no mention of it, the case for implementing blockchain-enabled applications and business processes can be gleaned from it in § 164.312(c)(1), which requires identifying what can be done to protect the data integrity. Its use-case becomes even more compelling because blockchain is not necessarily limited to wealthy, large healthcare players—Azure, Amazon Web Services, and IBM offer it as a service.

The initial listing of "dysfunctional leadership" among the problems causing cybersecurity breaches was intentional. Without effective leadership, any effort is doomed and the cyber incident story told by the breach data on the OCR's website may never change. While courts have traditionally provided corporate directors with a wide operational berth, the relentless plague of healthcare cybersecurity breaches and pervasive noncompliance will invariably alter that approach. Fixing the leadership problem is the key to curbing the steady stream of healthcare sector cyber incidents.

Security Solutions Stage

Moderated by:
Loren Dealy Mahler
President, Dealy Mahler Strategies LLC

This year the NEW Security Solutions Stage will feature a mix of interviews with security leaders and brief presentations from a variety of solution providers.

The stage is located within the Expo Area and will be active throughout the Summit. A complete schedule of presenters will be posted outside the Security Solutions Stage entrance.

Presentations will focus on tools attendees can utilize to improve their organization's security.

Moderating the interviews will be Loren Dealy Mahler, a seasoned strategic communications and crisis management expert and author of the "Communications War Room" blog at csoonline.com.

Be sure to stop by during the Summit to check out this new resource.

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Featured Speakers

Mark Dayton
Governor, State of Minnesota

Tuesday, October 24 | 9:50AM
Welcome/// Mark Dayton is Minnesota's 40th Governor. He is a strong proponent of the importance of cybersecurity, and earlier this month he signed a proclamation declaring October "Cybersecurity Awareness Month" in Minnesota. At this year's Summit, he will help welcome attendees.

Gov. Dayton is among 38 governors who pledged at a meeting of the National Governors Association this summer to make cybersecurity a top priority. He has said, "Strong cybersecurity is critical to protect our citizens, our businesses, and our state from attacks online. As these threats increase in volume and sophistication, we must invest in critical upgrades, technology, and talent to keep Minnesotans safe and secure online."

Dr. Stacey Dixon
Deputy Director, IARPA

Wednesday, October 25 | 8:45AM
Combating Short- and Long-Term Cyber Threats /// Dr. Stacey Dixon joined the Intelligence Advanced Research Projects Activity (IARPA) as its Deputy Director in January 2016. Dr. Dixon joined IARPA from the National Geospatial-Intelligence Agency (NGA) where she most recently served as Deputy Director of InnoVision and oversaw geospatial intelligence research and development. Prior to InnoVision, she served as NGA's Chief of Congressional and Intergovernmental Affairs. From 2007 to 2010 she worked on the U.S. House of Representatives Permanent Select Committee on Intelligence (HPSCI) staff. From 2003 to 2007 she worked for the Central Intelligence Agency (CIA) assigned to the National Reconnaissance Organization (NRO)'s Advanced Systems and Technology Directorate. Dr. Dixon holds doctorate and master's degrees in mechanical engineering from the Georgia Institute of Technology, and a bachelor's degree in mechanical engineering from Stanford University.

Matt Loeb
CEO, ISACA

Tuesday, October 24 | 8:30AM
Year in Review /// Matt Loeb is chief executive officer of ISACA. Prior to joining ISACA, he completed a 20-year career as staff executive for the Institute of Electrical and Electronics Engineers (IEEE) and as the executive director of the IEEE Foundation. His experience includes enterprise strategy, corporate development, global business operations, governance, publishing, sales, marketing, product development and acquisitions functions in a variety of for-profit and nonprofit organizations. He is a member of ISACA, CESSE and NACD, and a senior member of IEEE. Additionally, he is an ASAE Fellow and serves on ASAE's board of directors.

Learn More About Our Speakers

For full biographies and other relative information, visit:
www.cybersecuritysummit.org/speakers

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

Tuesday, Oct. 24 | 4:15PM
Securing Critical Infrastructure in an Uncertain World

Brad Antoniewicz
Head of Security Research Analyst Team, Cisco

Tuesday, Oct. 24 | 1:30PM
Anatomy of an Attack

Rich Banta
Managing Member, Lifeline Data Centers

Tuesday, Oct. 24 | 10:50AM
Compliance: What it Really Means
Tuesday, Oct. 24 | 11:10AM
Compliance is not a Cybersecurity Strategy

Brent Benson
Enterprise Sales Engineer, LogRhythm

Wednesday, Oct. 25 | 10:30AM
Maintaining Cyber Readiness in an Evolving Threat Landscape

Faisal Bhutto
VP of Enterprise Networking, Cloud & Cybersecurity, Computex Technology Solutions

Wednesday, Oct. 25 | 2:15PM
Strengthen Your Cyber Security Posture

JP Blaho
Senior Director, Product Marketing, Mimecast

Tuesday, Oct. 24 | 10:30AM
Phishing Trends

Christopher Buse
Chief Information Security Officer & Assistant Commissioner, MNIT Services, State of Minnesota

Tuesday, Oct. 24 | 7:00AM
Student Breakfast

Seth Carmody
Cybersecurity Program Manager, FDA

Monday, Oct.23 | 4:00PM
Building the Future – Standards and Resources

Todd Carpenter
Chief Engineer and Co-Owner, Adventium Labs

Monday, Oct. 23 | 2:30PM
Moving Toward Future-Proofing Medical Device Security

Pete Chestna
Director of Developer Engagement, Veracode

Monday, Oct. 23 | 2:30PM
DevOps - Security's Big Opportunity
Monday, Oct. 23 | 4:45PM
Open Q+A

Loren Dealy Mahler
President, Dealy Mahler Strategies LLC

Tuesday, Oct. 24 | 3:45PM
Having a Cyber Communications Plan

Stephanie Domas
Lead Medical Security Engineer, Battelle DeviceSecure® Services

Monday, Oct. 23 | 2:30PM
Moving Toward Future-Proofing Medical Device Security

Chris Eng
VP of Security Research, Veracode

Monday, Oct. 23 | 4:15PM
Veracode's DevSecOps Journey
Monday, Oct. 23 | 4:45PM
Open Q+A

Drew Evans
Superintendent, Bureau of Criminal Apprehension

Wednesday, Oct. 25 | 3:30PM
Information Sharing to Better Protect Companies in the U.S.

Steen Fjalstad
Security and Mitigation Principal, Midwest Reliability Organization

Tuesday, Oct. 24 | 11:10AM
Compliance is not a Cybersecurity Strategy

Joel Fulton
Chief Information Security Officer, Splunk

Monday, Oct. 23 | 3:00PM
M&A Opportunities with Security
Monday, Oct. 23 | 4:30PM
Investing Through the Lens of Accredited Investors and Thought Leaders

Hala V. Furst
Cybersecurity and Technology Business Liaison, U.S. Department of Homeland Security

Tuesday, Oct. 24 | 9:30AM
Real-Life Lessons Learned
Tuesday, Oct. 24 | 1:45PM
Cyber Security for Business Leaders

Christopher Golomb
Supervisory Special Agent, Federal Bureau of Investigation

Monday, Oct. 23 | 1:15PM
Threat Briefing: Medical Device & Healthcare Delivery Organization-Specific

Chris Greco
Senior Director of Solution Development, Blackberry

Tuesday, Oct. 24 | 3:45PM
The Intersection of the Connected Worker and the Internet of Things

Slade Griffin
Director of Security Assessments, Contextual Security Solutions

Tuesday, Oct. 24 | 2:45PM
Common Attack Vectors with Quick-Win Mitigations

Marshall Heilman
VP of Mandiant Consulting and Executive Director of Incident Response and Red Team Operations, FireEye

Tuesday, Oct. 24 | 2:00PM
Got Spies in Your Wires?

Justin Heyl
Solutions and Cybersecurity Business Development Director, UL

Monday, Oct. 23 | 4:00PM
Building the Future – Standards and Resources

Ken Hoyme
Director, Product Security, Boston Scientific

Monday, Oct. 23 | 1:15PM
Threat Briefing: Medical Device & Healthcare Delivery Organization-Specific
Monday, Oct. 23 | 4:00PM
Building the Future – Standards and Resources

Kevin Johnson
CEO, Secure Ideas

Tuesday, Oct. 24 | 11:10AM
Compliance is not a Cybersecurity Strategy

Mike Johnson
Senior Fellow,Technological Leadership Institute (TLI), University of Minnesota

Tuesday, Oct. 24 | 11:10AM
Compliance is not a Cybersecurity Strategy

Eran Kahana
Attorney, Maslon LLP

Monday, Oct. 23 | 1:15PM
Threat Briefing: Medical Device & Healthcare Delivery Organization-Specific

Michael Kearn
Co- Chair, Cyber Security Summit 2017; Vice President, Information Security Officer, U.S. Bank

Tuesday, Oct. 24 | 8:00AM
Welcome & Opening Remarks
Tuesday, Oct. 24 | 4:45PM
Meet the Threat Review & Beat the Threat Preview
Wednesday, Oct. 25 | 9:30AM
When the Levee Breaks
Wednesday, Oct. 25 | 4:45PM
An Overview – Practical Takeaways

Bob Kinder
President, SixGen, LLC

Monday, Oct. 23 | 3:45PM
Discussion on Defense M&A
Monday, Oct. 23 | 4:30PM
Investing Through the Lens of Accredited Investors and Thought Leaders

Michael Krause
Supervisory Special Agent, Federal Bureau of Investigation

Wednesday, Oct. 25 | 7:15AM
FBI Career Opportunities Breakfast
Wednesday, Oct. 25 | 11:00AM
Incident Response Panel

Dan Lyon
Principal Consultant, Synopsys Software Integrity Group

Monday, Oct. 23 | 2:30PM
Moving Toward Future-Proofing Medical Device Security

Kathy Orner
Vice President, Chief Risk Officer, Carlson Wagonlit Travel

Tuesday, Oct. 24 | 12:15PM
CISO Luncheon
(Invitation Only)

Yan Kravchenko
Chief Information Security Officer, Atomic Data

Tuesday, Oct. 24 | 2:45PM
Risk Assessments and Being Prepared for an Attack

Brad Maiorino
Executive Vice President, Booz Allen Hamilton

Wednesday, Oct.25 | 11:00AM
Incident Response Panel

Jay Radcliffe
Senior Security Consultant, Rapid7

Monday, Oct. 23 | 1:15PM
Threat Briefing: Medical Device & Healthcare Delivery Organization-Specific

Mark Lanterman
Chief Technology Officer, Computer Forensic Services

Wednesday, Oct. 25 | 7:15AM
CEO/BOD Breakfast
(Invitation Only)

Cyrus Malek
Associate, Briggs and Morgan P.A.

Tuesday, Oct. 24 | 2:15PM
Cyber Case Studies and Legal Considerations

Timothy Rank
Assistant United States Attorney, Deputy Criminal Chief, Fraud & Public Corruption Section, United States Attorney's Office

Wednesday, Oct. 25 | 11:00AM
Incident Response Panel

Brent Lassi
VP of Information Security, CISO, Carlson Wagonlit Travel

Tuesday, Oct. 24 | 12:15PM
CISO Luncheon
(Invitation Only)

Eileen Manning
President and CEO, The Event Group, Incorporated

Tuesday, Oct. 24 | 8:00AM
Welcome & Opening Remarks
Tuesday, Oct. 24 | 4:00PM
What You're Up Against: Real Life Examples from a Small Business Owner
Wednesday, Oct. 25 | 8:30AM
Welcome & Opening Remarks

Billy Rios
Founder, WhiteScope, LLC

Monday, Oct. 23 | 1:15PM
Threat Briefing: Medical Device & Healthcare Delivery Organization-Specific

Lisa Beth Lentini
Assistant General Counsel – Compliance, Deluxe Corporation

Wednesday, Oct. 25 | 11:00AM
Incident Response Panel

Tina Meeker
Owner & Principal, Beacon Information Security, LLC

Monday, Oct. 23 | 4:30PM
Investing Through the Lens of Accredited Investors and Thought Leaders

Philip Schenkenberg
Attorney and Shareholder, Briggs and Morgan P.A.

Tuesday, Oct. 24 | 2:15PM
Cyber Case Studies and Legal Considerations

Jim Libersky
President, Barrier1

Wednesday, Oct. 25 | 4:00PM
Running the Defense: Securing the Super Bowl

Darren Meyer
Principal Security Researcher, Veracode

Monday, Oct. 23 | 3:15PM
Planning For A Responsive AppSec Program

Lou Stephens
Vice President of Operations and Security, Sea Foam Corporation

Wednesday, Oct. 25 | 11:00AM
Moderator - Incident Response Panel

Nancy Libersky
Minnesota District Director, U.S. Small Business Administration

Tuesday, Oct. 24 | 1:30PM
Small Business Forum Welcome

Chris Olive
Senior Channel Engineer, North America, Thales e-Security

Tuesday, Oct. 24 | 12:15PM
CISO Luncheon
(Invitation Only)

Elizabeth Stevens
Co- Chair, Cyber Security Summit 2017; Director, Enterprise Resiliency & Response, UnitedHealth Group

Tuesday, Oct. 24 | 8:00AM
Welcome & Opening Remarks
Tuesday, Oct. 24 | 4:45PM
Meet the Threat Review & Beat the Threat Preview
Wednesday, Oct. 25 | 4:45PM
An Overview – Practical Takeaways

Bill Strub
Founder & CEO, NaviLogic

Monday, Oct. 23 | 4:30PM
Panel Moderator: Investing Through the Lens of Accredited Investors and Thought Leaders

Bill Swearingen
Director of Cyber Defense, CenturyLink

Wednesday, Oct. 25 | 1:15PM
The Greatest Gift – Making Attacks Expensive

Scott Sweren
Senior Security Consultant, AT&T

Tuesday, Oct. 24 | 9:00AM
The Dark Web

Catharine Trebnick
Vice President, Equity Capital Markets, Dougherty & Company LLC

Monday, Oct. 23 | 2:00PM
Update on Cyber Security Marketplace From IPO to Seed Funding

Larry Whiteside Jr.
CEO, Whiteside Security LLC

Monday, Oct. 23 | 2:15PM
Discussion on Next-Generation Techniques Replacing Legacy Software Tools
Monday, Oct. 23 | 4:30PM
Investing Through the Lens of Accredited Investors and Thought Leaders

Evan Wolff
Partner, Crowell and Moring LLP

Tuesday, Oct. 24 | 11:50AM
Breaches and Sensitive Documents – How to Prepare, Respond, and Protect Yourself

Jim Wolford
CEO/Co-Owner, Atomic Data

Tuesday, Oct. 24 | 4:30PM
Small Business Forum Q&A

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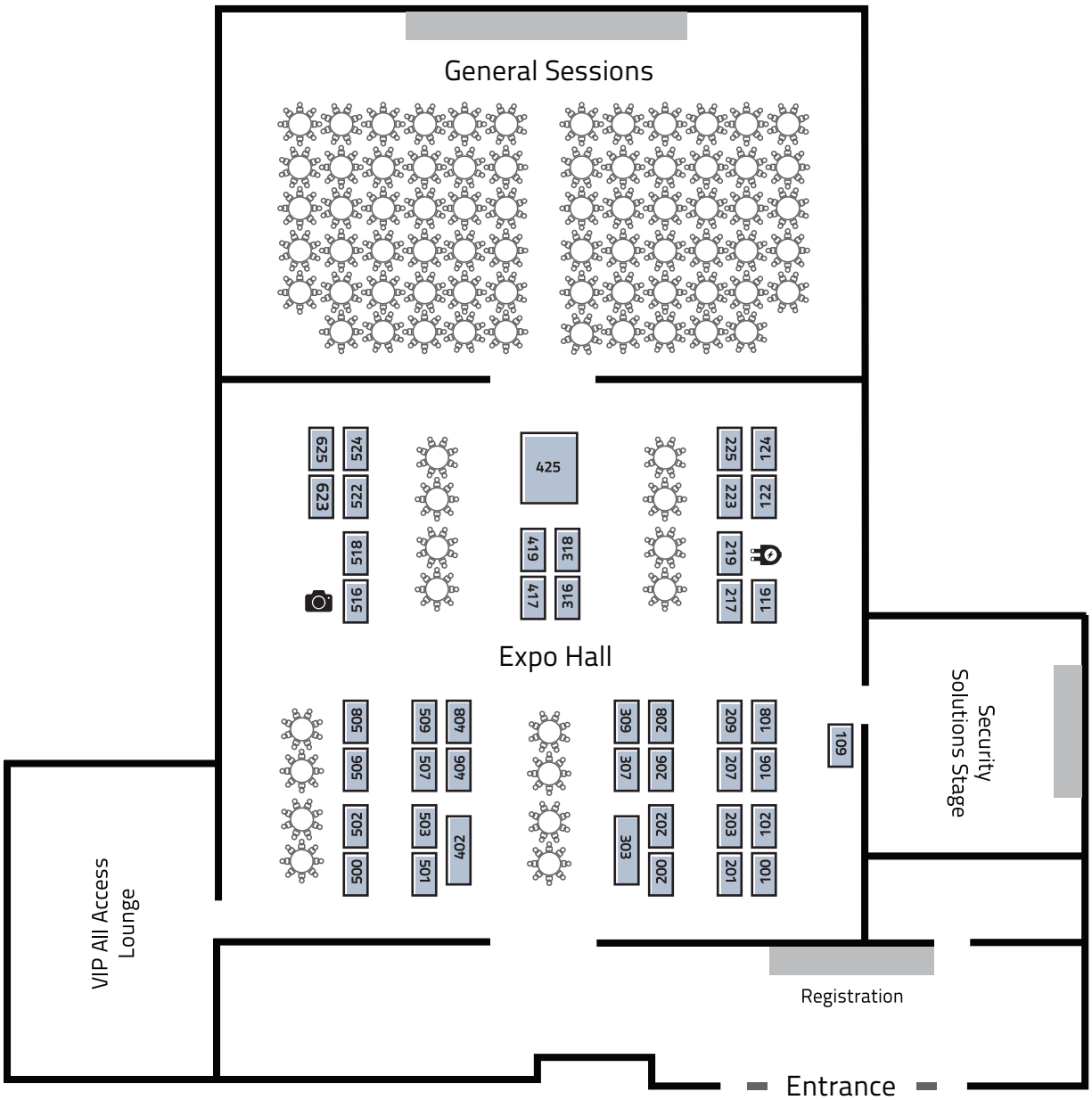

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501 FBI
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208 Target
217 Thales
402 University of Minnesota (TLI)
408 Veracode
406 Wipfli

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BRIDGE TOWER MEDIA™

CYBERSECURITY

NATIONAL FOCUS SECTION

November 20, 2017

BridgeTower Media editors take a close look at how market dynamics, legislation, competitive trends & new technologies in the cybersecurity sector affect the business & practices of the over 300,000 readers of BridgeTower Media Brands.

TOPICS INCLUDE:

- Holding back - CEOs, CFOs, & CIOs each perceive different reasons for companies' IT security deficiencies
- The four growing threats: Nuisance hacking; hacking for dollars; intellectual property theft; hacktivism
- The increasing sophistication of cyber attacks
- The risks of employee & customer mobile devices: They must be considered on par with laptop computers that have their own powerful peer-to-peer networks
- Security in the cloud: As security of the cloud model improves, organizations are entrusting more sensitive data to cloud providers

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Troy Williams: (612) 584-1524 twilliams@finance-commerce.com

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Adventium Labs

CONTRIBUTOR

Adventium Labs is an award-winning research and development company that blends automated reasoning, systems engineering, and cyber security to solve challenges of national importance. Adventium recently announced Magrana® Server, its robust, high-security server virtualization product which provides strong isolation to meet strict separation requirements with commodity commercial servers.

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50 South 6th Street, Suite 1360
Minneapolis, MN 55402
Lauren Carlson / 612.568.7167
info@backboneconsultants.com

www.backboneconsultants.com

Barrier1

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Barrier1 is a cyber security company that was designed a Patented Real Time AI-Neural Network platform that identifies and stops the known cyber attack within sub second time. Our patented approach has proven to be far more Effective, Accurate, Faster and Affordable than any other approach and has been validated by various 3rd parties. Barrier1 has been recognized by SC Mag as Innovator of the Year for 3 straight years and then selected into the SC Mag Hall of Fame.

Jim Libersky / 763.230.1041

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www.thefirstBBB.org

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Edina, MN 55439
info@bcpa.org

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SAVE THE DATE

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Cyber Security Terminology

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.

BACKDOOR

A backdoor is a tool installed after a compromise to give an attacker easier access to the compromised system around any security mechanisms that are in place.

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.

CHECKSUM

A value that is computed by a function that is dependent on the contents of a data object and is stored or transmitted together with the object, for the purpose of detecting changes in the data.

CIP

Critical Infrastructure Protection. The North American Electric Reliability Corporation (NERC), which FERC directed to develop Critical Infrastructure Protection (CIP) cyber security reliability standards.

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.

COMPUTER (DIGITAL) FORENSICS

The processes and tools to create a bit by bit copy of a an electronic device (collection and acquisition) for the purpose of analyzing and reporting evidence; gather and preserve evidence that is legally defensible and does not alter the original device or data.

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.

CSIRT

Cyber Security Incident Response Team

CYBER MUNITIONS

Technology system that has a purpose of causing harm and destruction by altering the running state of another system without permission.

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.

DMZ

DeMilitarized Zone. A physical or logical subnetwork where publicly facing internet connections occur; a subnetwork where an organization's external-facing services are exposed to an untrusted network (i.e. internet).

DOXING

The process or technique of gathering personal information on a target or subject, and building a dossier with the intent to cause harm.

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.

EVENT LOGS

The computer-based documentation log of all events occurring within a system.

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 physical appliance or software designed to control inbound and/or outbound electronic access.

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. The result of hashing is a value that can be used to validate if a file has been altered. Frequently used hash functions are MD5, SHA1 and SHA2

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 an information system or the information that the system processes, stores, or transmits and that may require a response action to mitigate the consequences.

INCIDENT HANDLER (CYBER SECURITY)

The person assigned to lead a team of subject matter experts in cyber security and how to respond to adverse security events.

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.

MSSP

Managed Security Service Provider

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.

NIST

National Institute of Standards and Technology. The 800 series (NIST 800) covers cyber and information security.

OPEN SOURCE

Denoting software whose original source code is made free and available with no restrictions on use, selling, distribution or modification of the code.

OPEN SOURCE TOOLS

Tools that are made with open source code.

OPEN SOURCE INTELLIGENCE

Intelligence collected from publicly available sources

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.

PACKET CAPTURES

The process of collecting, or capturing, network packets as they are being sent and received; used in diagnosing and solving network problems.

PENETRATION TESTING (PEN TEST)

An evaluation methodology whereby assessors actively probe 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.

PUBLIC KEY

The publicly-disclosed component of a pair of cryptographic keys used for asymmetric cryptography.

RDP

Remote Desktop Protocol. A Microsoft protocol through which a desktop or server may be accessed by a remote client.

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.

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.

ROAMING PROFILE

A configuration in which the user profile within the domain is stored on a server and allows authorized users to log on to any computer within a network domain and have a consistent desktop experience.

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.

SCRIPTKIDDIE

An unskilled or non-sophisticated individual using pre-made hacking techniques and software to attack networks and deface websites.

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.

SIEM

System Incident and Event Management. Tools and processes that collect data generated from devices and services to perform real time and historical correlated analysis to detect security, compliance and service levels events.

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.

SPEARPHISHING

An email or electronic communications scam targeted towards a specific individual, organization, or business.

SPOOFING

Faking the sending address of a transmission to gain illegal or 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.

TOPOLOGY DIAGRAM

A schematic diagram displaying how the various elements in a network communicate with each other. A topology diagram may be physical or logical.

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.

ZERO DAY

The Zero Day is the day a new vulnerability is made known. In some cases, a zero day exploit is referred to an exploit for which no patch is available yet. (Day one is day at which the patch is made available).

TECHNOLOGICAL
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Breaches, Breaches + More Breaches

Mike Johnson

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In the last month alone, we have learned that Yahoo! actually lost $3 billion of our account records; trusted cybersecurity consultancy Deloitte announced a breach of their internal systems; the U.S. Securities and Exchange Commission shared that the EDGAR database had been compromised (more than a year ago); and Equifax finally told us that they lost 145 million of our most sensitive personal and financial records earlier this year.

These shocking revelations have made announcements of data breaches from retailers like Sonic Drive-Ins and Whole Foods appear almost mundane and barely worthy of news coverage compared to the current state of the larger cybersecurity problem.

If you are a seasoned security professional, most breach announcements have tended to roll off our backs. We are familiar with the challenges of security systems and networks, and the constantly evolving threat environment, and we understand that there is no such thing as 100 percent secure. Our days are consumed with trying to keep up with the endless patching and systems management that is a foundation of what we hope is an effective information security risk management program; and with implementing better tools to monitor an improved process to manage our dynamic and interconnected environments. We fight for resources and funding against a myriad of other business priorities, including activities that actually generate revenue and increase the stock price, something in which senior management and boards of directors are pretty interested.

So how do cybersecurity professionals battle these priorities? After all, increased business success is a good thing for everyone at a company, since we all want our businesses to still be here so we can come back to work tomorrow and earn a paycheck. When will the reality of the potential impact from a cyber event be enough to finally get the attention of the right leaders in your company and how can we attain this basic goal?

While improved cybersecurity awareness activities and possibly stronger regulations may help, I believe the problem starts with leadership. Both business and security leaders hold some of the blame for the state we are in. The world needs more business leaders that understand all the risks facing their organizations — including risks to data and systems from cyber threats — and realize that we have an ethical and moral obligation to protect to the best of our abilities the sensitive data entrusted to us by our customers (or in the case of Equifax, by the population in general). We must do what is right and make sure that taking those actions works for both the business bottom line and the expectations of the people who are impacted by our failures.

Security leaders need to be better communicators who are more effective at sharing the message of cyber risk. We need to make the business case for comparing risks and investments for cyber security with priorities from all areas of the organization. We need to build enterprise plans that incorporate the right people, policies and procedures to make cybersecurity capabilities' successes and weaknesses transparent to business leadership, and to help them understand the repercussions of the lack of success in this area. Leading cyber security cannot be only about acquiring the newest tools and technology that promise to solve our security problem. Communications and influence skills take practice, and security leaders need to always be learning, about security risks and technologies, as well as business needs and drivers. Security leadership can and must be the facilitator that will hopefully help organizations do the right thing and turn the corner on improving the security of our most important asset, our personal data, before there is nothing left to protect.

Notes

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3 KEYS TO EFFECTIVE INCIDENT RESPONSE

Cyber incidents impact business operations and manifest themselves in various forms and levels of severity. They can touch every facet of your business, which can have a tremendous effect on your reputation and the trust you've established. An effective cyber incident response plan considers and involves the whole enterprise. A business, in its entirety, can be ready to respond more diligently if it takes into account the following tips.

Create a Holistic Plan

Create an incident response plan to prepare your company for two distinct, but interconnected, incident response purposes: Technical containment and resolution of the issue, and broader corporate risk mitigation. Effective cyber incident management extends beyond incidents. Your steady state—planning/preparing and post-incident improvement activities—are equally important. The response plan should reflect enterprise-wide roles and may address specific scenarios and how to mitigate their impact to the business. Drafting an initial plan requires effort to determine how people, processes, and technology work together across business functions. Consider both technical and corporate response roles. Once the plan is created, disseminate it to relevant stakeholders to ensure awareness and familiarity. The C-suite should communicate consistent support and encourage working relationships between business units and the IT department. This way, IT is empowered to share and enforce basic cyber security measures among staff, and staff will turn to the IT department when suspicion arises.

Test the Plan and Know the Roles

The most effective way to know how prepared you are for a cyber incident is to simulate one through an exercise to gauge your response. Testing not only gives you an assessment, but it can also help in keeping your plan updated to evolve with changes in threats, tools, and resources. These practice scenarios, often called "wargaming", can provide clarity on strengths and gaps within the organization, help you identify sufficient tools and resources, establish and clarify lines of authority, and designate response roles. This testing entails more than just making sure employees are trained on tools and procedures; they must be able to detect and remediate an incident—real or fictional. Wargaming serves to manage realistic situations and bring together the diverse set of groups that need to work collaboratively to respond.

Increase Awareness

Once the plans have been written and tested, keep up momentum and continued awareness about cyber risks. Engage your corporate communications or training department to help staff learn about cyber security in a way that is meaningful to their roles. In addition to internal messaging, make sure cyber incidents are incorporated into your organization's crisis communications capability. Organizations can benefit from having a crisis communications plan for a cyber incident, as well as designated spokespersons who are media-trained prior to an incident. You can also prepare in non-crisis times by setting up a responsible disclosure portal or by incorporating cyber information into your marketing materials.

KEY TAKEAWAY:

Have a cyber incident response plan that is enterprise-wide and uses a tested, all-staff approach to help resolve cyber incidents quicker and more transparently. Given that cyber threats are omnipresent, an incident may be all but inevitable. Fortunately, smart and proactive incident response planning can minimize the impact to your business.

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