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October 22-24, 2018 | Minneapolis, MN

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Source: CyberSeek	Source: Gartner, Inc.	Source: Bureau of Labor Statistics

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Nov. 14, Nov. 28 & Dec. 17 at 5:30 p.m.
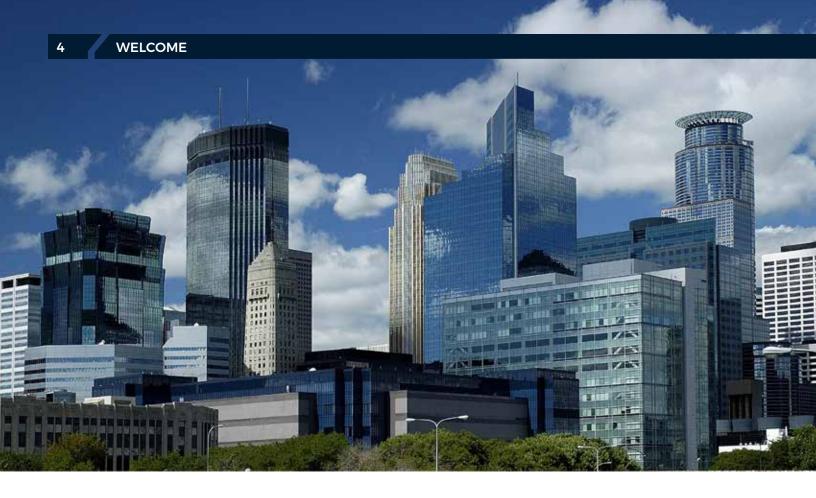Contact TLI admissions (tli-info@umn.edu or 612-624-5747) for details.

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The 2018 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 2019 today and receive a 10% discount through December 31, 2018.
For more information, contact our sponsorship sales consultant:

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Welcome to our 8th Annual 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.

Col. Stefanie Horvath

2018 Co-Chair
Cyber Security Summit

Eileen Manning

Executive Producer
Cyber Security Summit

Dave Notch

2018 Co-Chair
Cyber Security Summit

Thank you once again for joining us! The goal of this event is to support the ongoing evolution of cyber defenses for our businesses and organizations that fuel our economy and build and protect our communities. Although the threats and technology may change, it is always the people who inspire and drive progressive strategies. No progress is possible without the continued participation and engagement of security leaders like you.

The Summit itself advances to keep pace with this global challenge. In addition to our annual 2-day Summit, this year we are hosting multiple half-day events focused on Healthcare & Medical Device Cyber Security, DevSecOps for Practitioners, GDPR and Cyber Security for Small and Mid-Size Businesses. There are also tailored gatherings at the Summit for students, CISOs, attorneys, legislators, international attendees and more.

Today, there are more information and technology assets to protect than ever before, while at the same time there are more privacy considerations and threats have become more sophisticated. It can seem like an impossible task, but this Summit will not linger on a depressing litany of overwhelming statistics — if you're here, you probably understand the scope of this problem by now — and we don't believe these are Sisyphean challenges. That's why we've chosen speakers who understand current threats and will provide takeaways and actionable strategies you can use today. We hope you will leave feeling energized and transfer that energy back to your colleagues to perpetuate a sense of confidence for tackling this monumental 21st century challenge.

Speaking of colleagues, cybersecurity is truly a team effort, and that is one of the reasons we expanded the number of categories awarded in this year's Visionary Leadership Awards. There are many unsung heroes in security, and the new format of the awards gives us a chance to recognize a broader spectrum of contributors, both now and in the future. If you haven't already signed up to attend the awards dinner on Oct. 23, there are still a few seats available. Check in at the registration table for information.

Finally, this event is also the product of teamwork, which includes contributions from our advisory board and vital support from our sponsors. Please take time to visit with them and learn about the resources available.

Contents

Questions?

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

Network: cyber security summit
Password: css2018!

Highlights

Continuing Education Credits

Summit participation fulfills up to 16.5 hours of continuing education credits, depending on the organization.

Networking

Build relationships with delegates from around the U.S. and at least and 8 countries throughout the world.

Expo Reception

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

Passport Prize

Complete the passport you received when you registered and drop it off at the LogRhythm booth to be eligible to win a $100 gift card.

Sponsored by: **LogRhythm** The Security Intelligence Company

Visionary Leadership Awards Dinner

For the first time ever, we will be presenting our Visionary Leadership Awards at an evening gala on Tuesday, Oct. 23. Limited tickets available to join us tonight for the Awards dinner — stop at the registration desk to buy your ticket.

Bruce Schneier Book Signing

Join us in the Expo Hall at the IBM Resilient booth during lunch on Wednesday where Bruce Schneier will be signing FREE copies of his new book, "Click Here To Kill Everybody."

Sponsored by: **IBM Resilient**

Security Solutions Interviews

During the Summit, you may notice keynotes and other experts being interviewed. Look for the clips after the event on the Cyber Security Summit YouTube Channel. https://bit.ly/2OYkcUI

2019 VIP All Access Pass Giveaway

Everyone who follows our Twitter or Facebook page during the Summit and posts with the hashtag #CSSMN18 will be entered to **win a free VIP All Access Pass to Cyber Security Summit 2019 ($999 value)**. Post on both Facebook and Twitter to be entered twice! *Drawing to be held Wednesday at 2:45 PM.*

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Dave Notch
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Kristi Yauch
TCF Bank

2018 Committees

VISIONARY LEADERSHIP AWARDS

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CISO LUNCHEON

Mike Johnson, Technological Leadership Institute**; Jeremy Swenson, Abstract Forward Consulting**; Michael Larson, Ecolab; Tina Meeker, Shutterfly; Melissa Seebeck, Delta Airlines; Catharine Trebnick, Dougherty & Company LLC; Chris Veltos, Dr. InfoSec

HEALTHCARE & MED DEVICE CYBER SECURITY SERIES

Ken Hoyme, Boston Scientific**; Bonnie Anderson Maxey, Hennepin Healthcare; Bob Bennett, NaviLogic; Curtis Blythe, Abbott Medical Devices; Deb Bruemmer, Mayo Clinic; Todd Carpenter, Adventium Labs; Scott Erven, PwC; Brian Isle, Technological Leadership Institute; Eileen Manning, Executive Producer and Co-Creator, Cyber Security Summit; Dan Mooradian, Technological Leadership Institute; Dale Nordenberg, Medical Device Innovation, Safety, and Security Consortium; David Notch, Medtronic; Matt Russo, Medtronic; Chris Tyberg, Abbott Medical Devices

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Kathy Orner, Carlson Wagonlit Travel**; Karen Anderson, Eide Bailly; Anne Bader, The International Cybersecurity Dialogue; Sam Grosby, Wells Fargo; Col. Stefanie Horvath, Minnesota IT Services; Mike Johnson, Technological Leadership Institute; Eileen Manning, Cyber Security Summit; Mark Ritchie, Former Minnesota Secretary of State; Natascha Shawver, University of Minnesota; John Valente, 3M; Pekka Vepsäläinen, Tikkasec Ltd.

LEGISLATIVE OUTREACH

Jack Lichtenstein, JDL Advisory, LLC**; Chris Buse, Minnesota Office of the Legislative Auditor; Aaron Verdell Call, State of Minnesota; Faisal Kaleem, Metropolitan State University

MEETING HOSTS

January: Jill Allison, Best Buy; **February**: Gregory Ogdahl, MoneyGram; **March**: Bob Hoschka, Computex Technology Solutions; **April**: Jay Gregerson, CenturyLink; **May**: Sam Grosby, Wells Fargo; **June**: Phil Schenkenberg, Briggs & Morgan; **July**: Mary Frantz, EKP; **August**: Jerrod Montoya, OATI; **September**: Frank Ross, General Mills

PROGRAM & SPEAKER REVIEW

Stefanie Horvath, Minnesota IT Services**; Dave Notch, Medtronic**; Jill Allison, Shuriken Cyber, Inc.; Bob Bassett, CenturyLink; Chris Buse, Minnesota Office of the Legislative Auditor; Aaron Verdell Call, State of Minnesota; Steen Fjalstad, Midwest Reliability Organization; Mike Kearn, US Bank; David La Belle, NorSec Foundation; Michael Larson, Ecolab; Jack Lichtenstein, JDL Advisory, LLC; Tina Meeker, Shutterly; Melissa Seebeck, Delta Airlines; Kristi Yauch, TCF Bank

ROUNDTABLE COMMITTEE

Steen Fjalstad, Midwest Reliability Organization**; Bonnie Anderson, Hennepin Healthcare; Dave Notch, Medtronic; David La Belle, NorSec Foundation; Frank Ross, General Mills; Jack Lichtenstein, JDL Advisory, LLC; Mary Frantz, Enterprise Knowledge Partners, LLC; Stefanie Horvath, Minnesota IT Services; Tina Meeker, Shutterfly

SMALL BUSINESS

Phil Schenkenberg, Briggs and Morgan, PA**; Amos Aesoph, Xigent Solutions; Twila Kennedy, SBA; Loren Dealy Mahler, Dealy Mahler Strategies; Cyrus Malek, Briggs and Morgan, PA; Tina Meeker, Shutterfly

SOLUTIONS STRATEGY INTERVIEWS

Loren Dealy Mahler, Dealy Mahler Strategies**; Charlie Barker, Cyber Security Summit; Jennifer Churchill, Cyber Security Summit; Bob Hoschka, Computex

STUDENT SCHOLARSHIPS

Aaron Verdell Call, State of Minnesota**; David Berthiaume, MNIT; Chris Buse, Minnesota Office of the Legislative Auditor

(**Denotes Chair)

Specialty Events

VIP Reception
Oct.22 @5:00 PM

International Dinner
Oct.22 @6:45 PM

Student Breakfast
Oct.23 @7:00 AM | MINNESOTA IT SERVICES

General Counsel Luncheon
Oct.23 @12:00 PM

FBI Breakfast
Oct.24 @7:15 AM

Room 102AB

"Table Stakes" in the Development and Deployment of Secure Medical Devices

Monday, October 22 | 1:00 - 5:00 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 Introduction
1:15–2:00 PM	Basic Threat Modeling and Risk Assessment
	Fotios Chantzis, Mayo Clinic
2:00–2:30 PM	What are the chances? Lessons learned from 50 years of predicting risk.
	Douglas Clare, FICO
2:30–3:15 PM	Panel: Cyber-Hygiene – How Do You Harden a Legacy Medical Device?
	Moderator: Jay Radcliffe, Thermo Fisher Scientific
	Adam Brand, PwC; Michael McNeil; Philips Healthcare
3:15–3:30 PM	Break

3:30–4:15 PM	Patching Best Practices
	Michael McNeil, Philips Healthcare
4:15–5:00 PM	Panel: What are the basic requirements for security testing and how best to get that done?
	Moderator: Ken Hoyme, Boston Scientific
	Danilo Clemente, Mayo Clinic; Garrett Sipple, Synopsys; JT Tyra, Medtronic

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Room 102F

DevSecOps
For Practitioners

Monday, October 22 | 1:30 - 5:00 PM

Learn why cybersecurity practitioners need to be involved in DevSecOps and the tool sets you need to learn. This session will cover questions including: Why do we care? What do we need to do? Who should be doing it? When do you insert it into the cycle? Where do you insert it? When do you insert it? As well as IoT-related questions like: How do you lock it down? How do you patch it? How do you control what customers do with it?

Chris Perkins, Sr. Principal Security Architect, Medtronic

Moving Security Left in the Development Cycle

What does it take to embed security into development? How to add security into user stories? Should we include misuse stories? Is security a quality component of application development?

Michael Larson, Principal Security Architect, Ecolab

DevSecOps Q & A with the Experts

Room 102E

GDPR — General Data Protection Regulation

Monday, October 22 | 1:30 - 5:00 PM

No matter where your business is based, GDPR affects you if you are providing products or services to EU citizens or organizations. If you don't comply with GDPR, you may face huge damage due to fines and legal costs. But most importantly, you may lose trust of your customers, which may eventually cause loss of your business within the EU.

Agenda

1:30–2:15 PM	**Navigating through GDPR Compliance and Shifting Global Data Privacy Laws**
	Austin O'Brion, Token of Trust
2:15–3:15 PM	**5 Steps Toward GDPR Compliancy in Practice**
	Pekka Vepsäläinen, Tikkasec Ltd.

3:15–3:30 PM	**Break**
3:30–4:15 PM	**Information Security Best Practices and GDPR**
	Douglas Garrison, Sirius
4:15–5:00 PM	**GDPR Q & A with the Experts**
	Moderator: Phil Schenkenberg, Briggs and Morgan

Room 102F

Cyber Security for Small and Mid-size Businesses

Tuesday, October 23 | 1:15 - 6:00 PM

Everyone is a target for cybercrime, but not every business has a dedicated Chief Information Security Officer and team of security professionals to tackle the problem. That doesn't mean you are defenseless or that you can neglect to do your due diligence. You will come away with actionable information that you can use in your businesses to prevent attacks, mitigate losses, and recover after an incident.

Agenda

1:00–1:15 PM Registration and Check-In

1:15–1:30 PM Welcome
Nancy Libersky, U.S. Small Business Administration

1:30–2:00 PM How to Jumpstart Your Security Program
Kathy Washenberger, Focus Point Technologies

2:00–2:30 PM States Are Making Big Moves on Data Privacy Laws – What Does it Mean For You?
Phil Schenkenberg, Briggs and Morgan P.A.

2:30–3:00 PM Communication Strategies and Lessons Learned
Loren Dealy Mahler, Dealy Mahler Strategies, LLC

3:00–3:30 PM Break

3:30–4:00 PM Industry Standard Frameworks: What You Need to Know and How to Use Them
Amos Aesoph, Xigent Solutions

4:00–4:30 PM How the Government is Helping Small to Mid-Size Businesses Build a Defense
Geoffrey Jenista, Department of Homeland Security

4:30–5:00 PM Panel of Experts Takes Audience Questions

5:00–6:00 PM Reception & Resources in Ballroom B

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Monday, October 22

1:00 - 5:00 PM	**Healthcare & Med Device Cyber Security Series —** See page 8 for details.
1:30 - 5:00 PM	**DevSecOps For Practitioners —** See page 11 for details.
1:30 - 5:00 PM	**GDPR —** See page 12 for details.
5:00 - 6:30 PM	**VIP Reception (Ticketed Event)**
6:45 - 8:00 PM	**International Dinner (Private Event)** *Major Gen. Jon Jensen, Minnesota National Guard; Harshal Mehta, Carlson Wagonlit Travel*

Tuesday, October 23

7:00 - 7:45 AM *Lounge A (Level 2)*	**Student Breakfast** (Invitation only) *Ryan Aniol, State of Minnesota*
7:00 - 8:00 AM	**Summit Breakfast in Expo Area**
8:00 - 8:30 AM	**Welcome and Opening Remarks** // *Col. Stefanie Horvath and Dave Notch, 2018 Summit Co-Chairs*
8:30 - 9:30 AM	**The Most Impactful Intellectual Property Theft in History — What You Need to Know About Protecting Trade Secrets** The Department of Justice recently engaged in the first criminal trial of a People's Republic of China entity for trade secret theft. After a 12-day trial, the jury convicted Sinovel of all charges, but the crime cost the American corporate victim over $1 billion, forced it to close offices, and layoff 70% of its workforce. It was arguably the most impactful trade secret theft in history. Brian will discuss that case and what we all can do to prevent, minimize harm from, and deter such insider and cyber incidents. *Brian Levine, US Department of Justice*
9:30 - 10:00 AM	**National Policy Conversation** // Learn what's being discussed today by policymakers in Washington, D.C., and beyond. *Matthew Rhoades, Cybersecurity & Technology Program at The Aspen Institute*
10:00 - 10:30 AM	**BREAK IN EXPO AREA**
10:30 AM - 12:00 PM	**LEADERSHIP TRACK: Cyber Operations and Intelligence Essentials for Leaders** // The Cyber Operations and intelligence Essential for Leaders (COIL) course provides a foundational understanding of emerging cyberspace operations for future enterprise leaders who do not possess previous cybersecurity or information technology backgrounds. An expert instructor will deliver a comprehensive knowledge set on cybersecurity stemming from military and intelligence senior leaders, which have evolved operational principles in the cyberspace domain. The course first covers six domains: cyber intelligence, vulnerability management, threat management, incident response, security architecture and cyber security tool set. Then moves to more operational concepts Cyber Threat Intelligence (CTI) and Cyber Threat Analysis through case studies of real-world security breaches. Attendees can take away greater understanding of terms, concepts and principles to effectively manage and defend their organization in the cyber domain. *Bob Stasio, DreamIt Ventures*

10:30 - 11:15 AM *Room 102*	**TECHNICAL TRACK: How you prioritize threats and intelligence** // Given the immense volume of threat intelligence and potential intrusions, how do you make sense of it in an efficient and effective way? Which threats pose YOUR organization the most risk? How do you create a baseline for your activities and then use that to understand when something is wrong? *Eric Dull, Deloitte & Touche LLP*
11:15 AM - **12:00 PM** *Room 102*	**TECHNICAL TRACK: Security and Threats Around Microservices** // A lot of company's web services are getting compromised. How do you secure them? How do you ensure they are doing what they are supposed to be doing? Why does the CISO care? The vast majority of transactions are happening via some form of web application. That's convenient, but you could wind up with transactions you don't want, information leakage, and various other threats. *Mike Gillespie, Amazon Web Services*
12:00 - 1:15 PM *Seasons* *(Level 2)*	**CISO Luncheon** (Invitation only; must be a CISO, CIO or CTO to attend) **– Underfunded and Overwhelmed?** // Practitioners today are battling for every dollar in security. Is there any precedent for what is a reasonable amount of security? *Paul Calatayud, Palo Alto*
12:00 - 1:15 PM	**LUNCH AND ROUNDTABLE DISCUSSIONS**
12:00 - 1:15 PM *Lounge A* *(Level 2)*	**General Counsel Luncheon** (Ticketed event; must be a General Counsel or Chief Compliance Officer to attend — CLE Credit Available) **— Partnering With Law Enforcement to Fight IP Crime and Cybercrime** // This session is intended for lawyers and is a follow-up to Brian's keynote presentation. The session will focus on the current cyber and IP threat environment and how lawyers and their clients can help prevent and deter these threats by partnering with law enforcement. The presentation will also address common misconceptions lawyers and their clients have about working with law enforcement. *Brian Levine, US Department of Justice; Lt. Col. Lyndsey Olson; St. Paul City Attorney (Session Chair)*
1:00 - 6:00 PM	**Cyber Security for Small and Mid-Size Businesses —** See page 15 for details.
1:30 - 2:00 PM	**How Do You Deal With the Sheer Volume of Security Data?** // What Big Data tools are available? How do you do Big Data analysis? How do you deal with security data? How do I take what's normal out of the mix and find what isn't normal? How do you secure a Big Data environment? *Peter Brecl, CenturyLink*
2:00 - 2:30 PM	**Using Deception Techniques to Create Strong Detection** // Breaches are occurring at an increasing rate, amply demonstrating that many attackers know how to evade our typical prevention and detection technologies. In this technical talk we'll explore creative ways to leverage deception techniques to create a "detection land mine," which cyber criminals can't detect and, hopefully, can't evade. The added bonus is that most of these techniques cost little or nothing to deploy. *Tim Crothers, Target*
2:30 - 3:00 PM	**Cybersecurity: How Much Is Enough?** // How much security is enough? The security wizard answer is always "more." But for government and business decision-makers the answer is much more complex. They must juggle countless business variables and make risk decisions in a context of "due care" and "reasonableness." And their decisions must be explainable to business executives and Boards, attorneys and judges, regulators and auditors, and even customers. In this talk, Tony will walk through the primary cost drivers of cyberdefense and show how CIS uses shared labor and community partnerships to understand the threat, translate it into effective action, and define prioritized security actions that make sense technically as well as from a business decision-making perspective. *Tony Sager, The Center for Internet Security*
3:00 - 3:30 PM	**BREAK IN EXPO AREA**

3:30 - 4:30 PM	**Panel: What's Working: Information Across Companies and Industries** // Everyone is being hit by the same attacks – how do we better share what we know? What is working about current models of sharing information and how do we go beyond our silos to share more broadly? How do we create a level of trust between CISOs to share more information?
	Moderator: Steve Hunt, ISSA Distinguished Fellow, Hall of Fame *Panelists: Nancy Brainerd, Medtronic; Carl Fassbender, 3M and MN Army National Guard; Mary Faulkner, Thrivent Financial*
4:30 - 5:15 PM	**The Top 10 Things You Must Do to Protect Security Systems from Cyber Attacks** // This session highlights the most important issues, approaches and examples of how and security technology gets hacked and defines a roadmap to greatly reduce the risk. This delivers real world techniques attendees can take back to their organizations to improve their security – explained in plain English without the techie talk. It will explain how cyber-attacks are carried out and how the Top 10 steps can greatly reduce the risk to security systems like CCTV, Access Control, alarms, etc., whether on premise or in the cloud. Real world examples are presented.
	David Tyson, CISO Insights; Past President and Chairman of ASIS International Board of Directors
5:15 - 6:00 PM	**NETWORKING RECEPTION IN EXPO AREA** // Join us for cocktails and appetizers in the expo area where you can mingle with your fellow attendees and our vendor partners
6:00 - 8:00 PM *Seasons* *(Level 2)*	**VISIONARY LEADERSHIP AWARD DINNER** // The Cyber Security Summit is pleased to announce the names of its largest-ever group of Visionary Leadership Award winners. The Summit has given awards to top leaders in industry, government and academia since 2015. However, this year the awards program was expanded to include a wider array of visionaries. Along with recognition for their accomplishments, award recipients will get a brief opportunity to share their innovative strategies at our first annual gala event.
	Chris Buse, Minnesota Office of the Legislative Auditor; Jason Witty, US Bank; Kathy Orner, Carlson Wagonlit Travel

Wednesday, October 24

7:15 - 8:00 AM *Lounge A* *(Level 2)*	**FBI Career Opportunities Breakfast** // Have you ever considered a career with the FBI? Join us for this special breakfast during the 2018 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.
	Stephanie Cassioppi, FBI
7:15 - 8:00 AM	**SUMMIT BREAKFAST IN EXPO AREA**
8:00 - 8:30 AM	**Welcome and Opening Remarks** // Highlights from Day 1 and the Visionary Leadership Award Dinner
	Col. Stefanie Horvath, Minnesota IT Services; Dave Notch, Medtronic
8:30 - 9:00 AM	**The Anatomy of an Email-Borne Attack** // Let's face it: email is still the biggest entry point into your organization, even in secure environments. Security threats are real and debilitating, and they aren't going away anytime soon. Join us for Anatomy of an Email-Borne Attack, where Mimecast will paint the current threat landscape for email-borne attacks and demonstrate an actual live e-mail based 'hack' in real-time.
	Brandon Reid, Mimecast
9:00 - 10:00 AM	**Economics of Cybersecurity** // Keeping systems safe often seems to be in conflict with economic considerations. Yet economics can be a CISO's most powerful tool. It can be used to anticipate the attacks that will really matter and choose the most cost-effective defenses against them. By giving cyber security decisions a quantitative, financial basis, it can turn CEO's and CFO's from skeptical challengers into reliable allies.
	Scott Borg, US Cyber Consequences Unit

10:00 - 10:30 AM	**BREAK IN EXPO AREA**
10:30 - 11:30 AM	**Bruce Schneier: "Click Here to Kill Everybody"** // Computer security is no longer about data; it's about life and property. This change makes an enormous difference, and will shake up our industry in many ways. First, data authentication and integrity will become more important than confidentiality. And second, our largely regulation-free Internet will become a thing of the past. Soon we will no longer have a choice between government regulation and no government regulation. Our choice is between smart government regulation and stupid government regulation. Given this future, it's vital that we look back at what we've learned from past attempts to secure these systems, and forward at what technologies, laws, regulations, economic incentives, and social norms we need to secure them in the future. *Bruce Schneier, IBM Resilient*
11:30 AM - 12:45 PM	**LUNCH, BOOK SIGNING AND ISAC ROUNDTABLE DISCUSSION IN EXPO AREA**
11:30 AM - 1:00 PM *Lounge A (Level 2)*	**Legislative Cyber Security Briefing** (Invitation only) — **IT Security Governance** // Is there appropriate oversight of IT in elected bodies and corporations? Do we have the right framework for real governance? *Rep. Tony Albright; Chris Buse, Minnesota Office of the Legislative Auditor; Aaron Verdell Call, State of Minnesota; Rep. Eric Lucero; Col. Stefanie Horvath, Minnesota IT Services; Tony Sager, The Center for Internet Security; Rep. Jim Nash; Kyle Swanson, Ph.D., Metropolitan State University; Sen. Melissa Wiklund*
12:45 - 1:45 PM	**Panel: Building Trusted Vendor Partnerships** // This panel will look at how practitioners and solution providers can work better together. What are corporations looking for in vendor partner solutions? What are the criteria? What are the impediments? *Moderator: Dave Notch, Medtronic* *Panelists: Steve Roge, Capsule8; Steve Booth, FireEye; Steve Brown, Xcel Energy*
1:45 - 2:45 PM	**A Hacker's Perspective: Cyber Hygiene vs. Exotic Technologies — What is the Right Balance?** // From a Hacker's Perspective, what are the priority basics to put into place? *Chris Roberts, LARES*
2:45 - 3:15 PM	**BREAK & PRIZE DRAWING IN EXPO AREA**
3:15 - 4:15 PM	**Panel: Cloud Security: Considerations and Risks** // Protecting applications using cloud services, whether IaaS, PaaS or SaaS, presents problems for traditional security models that have been used for decades to protect typical data center environments. While legacy security models quickly prove inadequate for protecting cloud workloads, the automation and scalability associated with cloud environments can, in many cases, provide more advanced and effective security controls than previously possible in on-premise environments. This session will outline the various cloud features and functionality that can be leveraged to effectively protect even high security workloads. *Moderator: Jenny Menna, US Bank* *Panelists Kevin Malesky, CheckPoint; Krish Srinivasan, Target; Nicholas Steblay, Best Buy*
4:15 - 4:45 PM	**Latest Developments in Global Privacy Policy** // With the deadline for GDPR five months past, what has been the impact? What other privacy regulations should both global and domestic corporations be concerned about? What else is in store following the Facebook and Cambridge Analytica revelations? This session will take a broad view of the global privacy landscape and what organizations should be doing to prepare. *Thomas Wise, Carlson Wagonlit Travel*
4:45 - 5:15 PM	**Wrap Up — Practical Takeaways** // After 2-1/2 days of in-depth presentations, our co-chairs share some of the takeaways from the 2018 Summit. *Col. Stefanie Horvath and Dave Notch, 2018 Summit Co-Chairs*

Upcoming Industry Events

NOVEMBER 1

ISACA MINNESOTA | INTERFACE TWIN CITIES 2018

Minneapolis Convention Center @8:30 AM
Covering IT Infrastructure, BC/DR, IT Security, Data Storage, and Enterprise Communications, you'll find presentations, panel discussions, and exhibits offering a variety of topics, as well as the latest innovations and best practices.

NOVEMBER 8

BCPA | CHAOS ENGINEERING — FROM RECOVERY TO RESILIENCY

Centennial Lakes Office Park @1:30 PM
Presentation will be both non-technical and technical. Focus will be for IT disaster recovery and business continuity areas but all are welcome to come listen and learn about this exciting new discipline!

NOVEMBER 29

MHTA | MINNESOTA TEKNE AWARDS

Minneapolis Convention Center @5:00 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.

DECEMBER 18

ISSA MINNESOTA | CHAPTER MEETING

St. Mary's University 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.

FEBRUARY 22

UMSA | Student360

3M Corporate Headquarters
Student360 is a student-focused event based off of the Secure360 Conference. The event is focused on offering professional advancement/career sessions, tech sessions and a career pavilion for recruiting and interviews. The event is hosted by the Upper Midwest Security Alliance (UMSA).

A PERSONAL NOTE OF THANKS

Eight years ago The Event Group was asked to produce this Summit by the Technological Leadership Institute at the University of Minnesota. The concern then was that with all 16 critical infrastructure sectors and 17 Fortune 500s based in Minnesota, the state would be a target for cyberattacks. Fast-forward to today and the Summit has become an international event.

Since this event began, we have seen many Cyber Security Summits pop up, but we work hard to honor our original mission and remain committed to producing an event that is not a vendor pitch. This has only been possible because of the amazing support of our Advisory Board, Committees and Sponsors. Between those groups, more than 100 people came together to drive this event – led by two amazing co-chairs.

For 2018, Co-Chairs Col. Stef Horvath and David Notch represented industry, government and the military. That kind of cross-pollination of perspectives is what makes this Summit unique. These two individuals have put in hundreds of hours and deserve very special thanks!

Exciting growth is on the horizon as we expand and collaborate with partners like ASIS International's GSX. Thank you for your participation and please **Save the Date for 2019 — October 28-30!**

Eileen Manning, Executive Producer, Cyber Security Summit

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Metropolitan State University

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Sat, October 27
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Jason R. Carter
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For more information, please contact CSFSO President, Nyphen Sanders at wh7284el@metrostate.edu or visit us online: orgsync.com/106405/chapter

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Featured Speakers

TIM CROTHERS
VP of Cyber Security, Target

October 23 | 2:00 PM

Tim is a seasoned security leader with over 20 years experience building and running information security programs, large and complex incident response and breach investigations, and threat and vulnerability assessments. He has deep experience in cyber-threat intelligence, reverse engineering, computer forensics, intrusion detection, breach prevention, and applying six sigma/lean process to information security. He is author/co-author of 15 books to date as well as regular training and speaking engagements at information security conferences.

JENNY MENNA
Senior Vice President, Information Systems Security, US Bank

October 24 | 3:15 PM

Jenny Menna is a Senior Vice President at U.S. Bank, leading Information Systems Security intelligence, exercise, education and awareness, and Business Line Information Security Officer teams. She also leads collaboration initiatives with industry and government. Her industry roles include the OASIS Board of Directors, Global Cybersecurity Alliance Strategic Advisory Committee, the Financial Top Level Domain Board of Directors, the Risk & Security Committee of Early Warning Services, and the Financial Services Information Sharing and Analysis Center's Threat Intelligence Committee.

BRUCE SCHNEIER
Chief Technology Officer, IBM Resilient

October 24 | 10:30 AM

Bruce Schneier is an internationally renowned security technologist, called a security guru by the Economist. He is the author of 14 books — including the New York Times best-seller Data and Goliath: The Hidden Battles to Collect Your Data and Control Your World — as well as hundreds of articles, essays, and academic papers. His influential newsletter Crypto-Gram and blog Schneier on Security are read by over 250,000 people. Schneier is a fellow at the Berkman Klein Center for Internet and Society at Harvard University; a Lecturer in Public Policy at the Harvard Kennedy School; a board member of the Electronic Frontier Foundation, AccessNow, and the Tor Project; and an advisory board member of EPIC and VerifiedVoting.org. He is also a special advisor to IBM Security and the Chief Technology Officer of IBM Resilient.

Learn More About Our Speakers

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

Summit Co-Chairs

COL. STEFANIE HORVATH
Executive Director Enterprise Services, Minnesota IT Services

October 23 | 8:00 AM
Welcome and
Opening Remarks
October 24 | 8:15 AM
Welcome and Opening
Remarks
October 24 | 11:30 AM
Legislative Security Briefing
October 24 | 5:15 PM
Wrap Up – Practical
Takeaways

DAVE NOTCH
Strategic Advisor, Enterprise Security & Cloud Architecture, Medtronic

October 22 | 5:00 PM
VIP Reception
October 23 | 8:00 AM
Welcome and Opening
Remarks
October 24 | 8:15 AM
Welcome and Opening
Remarks
October 24 | 12:45 PM
Panel: Building Trusted
Vendor Partnerships
October 24 | 5:15 PM
Wrap Up – Practical
Takeaways

AMOS AESOPH
Senior Solution Architect / XHS Security Officer, Xigent Solutions

October 23 | 1:00 PM
Small and Mid-Size
Business Forum

TONY ALBRIGHT
MN House of Representatives

October 24 | 11:30 AM
Legislative Security Briefing

RYAN ANIOL
Deputy CISO, State of Minnesota

October 23 | 7:00 AM
Student Breakfast

CHRIS BUSE
Deputy Legislative Auditor, Minnesota Office of the Legislative Auditor

October 23 | 6:00 PM
Visionary Leadership Award Dinner

ERIC DULL
Specialist Leader | Deloitte Advisory Cyber Risk Services, Deloitte & Touche LLP

October 23 | 10:30 AM
How Do You Prioritize Threats and Intelligence?

STEVEN BOOTH
VP & CSO, FireEye

October 24 | 12:45 PM
Panel: Building Trusted Vendor Partnerships

PAUL CALATAYUD
Chief Security Officer, Palo Alto Networks

October 23 | 12:00 PM
CISO Luncheon – Underfunded and Overwhelmed

CARL FASSBENDER
IT Security Manager, 3M and G6, Joint Force Headquarters, MN Army National Guard

October 23 | 3:30 PM
Panel: What's Working: Information Across Companies and Industries

SCOTT BORG
Director and Chief Economist, U.S. Cyber Consequences Unit

October 24 | 9:00 AM
Economics of Cybersecurity

AARON VERDELL CALL
Chief Information Security Officer, State of Minnesota

October 24 | 10:30 AM
Legislative Security Briefing

MARY FAULKNER
Director of Information Security, Thrivent Financial

October 23 | 3:30 PM
Panel: What's Working: Information Across Companies and Industries

NANCY BRAINERD
Senior Director, Global Security Office, Medtronic

October 23 | 3:30 PM
Panel: What's Working: Information Across Companies and Industries

STEPHANIE CASSIOPPI
Supervisory Special Agent, FBI

October 24 | 7:15 AM
FBI Career Opportunities Breakfast

DOUG GARRISON
Security Consultant, Sirius

October 22 | 1:30 PM
GDPR Overview

ADAM BRAND
Managing Director, PwC Cybersecurity and Privacy

October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

FOTIOS CHANTZIS
Principal Information Security Engineer, Mayo Clinic

October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

MIKE GILLESPIE
Solutions Architect, Amazon Web Services

October 23 | 11:15 AM
Security Threats Around Microservices

PETER BRECL
Director, Managed Security Services, CenturyLink

October 23 | 1:30 PM
How Do You Deal With the Sheer Volume of Security Data?

DOUGLAS CLARE
Vice President, Cyber Security Solutions, FICO

October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

KEN HOYME
Director, Product and Engineering Systems Security, Boston Scientific

October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

STEVE BROWN
Chief Security Officer, Xcel Energy

October 24 | 12:45 PM
Panel: Building Trusted Vendor Partnerships

DANILO CLEMENTE
Senior Information Security Engineer, Mayo Clinic

October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

STEVE HUNT
ISSA

October 23 | 3:30 PM
Panel: What's Working: Information Across Companies and Industries

GEOFFREY JENISTA
Cybersecurity Advisor, Region VII, Department of Homeland Security
October 23 | 1:00 PM
Small and Mid-Size Business Forum

LOREN DEALY MAHLER
President, Dealy Mahler Strategies, LLC
October 23 | 1:00 PM
Small and Mid-Size Business Forum

KATHY ORNER
Vice President, Chief Risk Officer, Carlson Wagonlit Travel
October 23 | 6:00 PM
Visionary Leadership Award Dinner

MAJOR GENERAL JON A. JENSEN
Adjutant General, Minnesota National Guard
October 22 | 6:45 PM
International Dinner

KEVIN MALESKY
Cloud Security Specialist, CheckPoint Software Technologies
October 24 | 3:15 PM
Panel: Cloud Security: Considerations and Risks

CHRIS PERKINS
Sr. Principal Security Architect, Medtronic
October 22 | 1:30 PM
DevSecOps for Practitioners

MIKE JOHNSON
Director of Graduate Studies - MSST, Technological Leadership Institute
October 23 | 8:00 AM
Welcome and Opening Remarks

MICHAEL MCNEIL
Global Product Security & Services Officer, Philips Healthcare
October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

JAY RADCLIFFE
Cyber Security Researcher, Thermo Fisher Scientific
October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

MICHAEL LARSON
Principal Security Architect, Ecolab
October 22 | 1:30 PM
DevSecOps for Practitioners

HARSHAL MEHTA
Chief Information Security Officer, Carlson Wagonlit Travel
October 22 | 6:45 PM
International Dinner

BRANDON REID
Enterprise Solutions Engineer, Mimecast
October 24 | 8:30 AM
The Anatomy of an Email-Borne Attack

BRIAN L. LEVINE
Senior Counsel & National CHIP Coordinator, U.S. Department of Justice
October 23 | 8:30 AM
The Most Impactful Intellectual Property Theft in History
October 23 | 12:00 PM
General Counsel Luncheon

REP. JIM NASH
Minnesota House of Representatives
October 24 | 11:30 AM
Legislative Security Briefing

MATTHEW RHOADES
Managing Director, Cybersecurity and Technology Program, The Aspen Institute
October 23 | 9:30 AM
National Policy Conversation

NANCY J. LIBERSKY
Minnesota District Director, U.S. Small Business Administration (SBA)
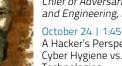October 23 | 1:00 PM
Small and Mid-Size Business Forum

AUSTIN O'BRION
Co-Founder, Token of Trust
October 22 | 1:30 PM
GDPR Overview

CHRIS ROBERTS
Chief of Adversarial Research and Engineering, Lares
October 24 | 1:45 PM
A Hacker's Perspective: Cyber Hygiene vs. Exotic Technologies

REP. ERIC LUCERO
Minnesota House of Representatives
October 24 | 11:30 AM
Legislative Security Briefing

LT. COL. LYNDSEY OLSON
City Attorney, City of Saint Paul
October 23 | 12:00 PM
General Counsel Luncheon

STEVE ROGE
Vice President of Sales, Capsule8
October 24 | 12:45 PM
Panel: Building Trusted Vendor Partnerships

TONY SAGER
Senior VP & Chief Evangelist, Center for Internet Security

October 23 | 2:30 PM
Cybersecurity: How Much Is Enough?
October 24 | 11:30 AM
Legislative Security Briefing

JT TYRA
Principal IT Security Technologist – Red Team, Medtronic

October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

PHILIP SCHENKENBERG
Attorney and Shareholder, Briggs and Morgan P.A., CIPP/US

October 22 | 1:30 PM
GDPR Overview
October 23 | 1:00 PM
Small and Mid-Size Business Forum

DAVID TYSON
CEO, CISO Insights; Past President and Chairman of ASIS International Board of Directors

October 23 | 4:30 PM
The Top 10 Things You Must Do to Protect Security Systems from Cyber Attacks

GARRETT SIPPLE
Managing Consultant, Synopsys, Inc.

October 22 | 1:00 PM
Healthcare & Med Device Cyber Security Series

PEKKA VEPSÄLÄINEN
CEO, Tikkasec Ltd.

October 22 | 1:30 PM
GDPR Overview

KRISHNAN SRINIVASAN
Vice President, Information Security, Target

October 24 | 3:15 PM
Panel: Cloud Security: Considerations and Risks

KATHY WASHENBERGER
CIO, Focus Point Technologies

October 23 | 1:00 PM
Small and Mid-Size Business Forum

BOB STASIO
Managing Director, DreamIt Ventures

October 23 | 10:30 AM
Leadership Track – Cyber Operations and Intelligence Essentials for Leaders

SENATOR MELISSA HALVORSON WIKLUND
Minnesota State Senate

October 24 | 11:30 AM
Legislative Security Briefing

NICHOLAS STEBLAY
Enterprise Capability Architect, Best Buy

October 24 | 3:15 PM
Panel: Cloud Security: Considerations and Risks

THOMAS WISE
Vice President, Global Compliance, Carlson Wagonlit Travel

October 24 | 4:15 PM
Latest Developments in Global Privacy Policy

KYLE SWANSON, PH.D
Dean of the College of Sciences, Metropolitan State University

October 24 | 11:30 AM
Legislative Security Briefing

JASON WITTY
Executive Vice-President and Chief Information Security Officer, US Bank

October 23 | 6:00 PM
Visionary Leadership Award Dinner

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As a bonus, the folks at Preempt (Booth #209) and DirSec (Booth #200) have also purchased a block of tickets. Stop by to get them while they're still available!

The Morries

2018 Visionary Leadership Awards

The Morries are named after Robert Tappan Morris, the American computer scientist who notably created the first computer worm on the Internet and later went on to make significant contributions to computer networking as well as co-found the funding firm Y Combinator becoming a tenured professor at the Massachusetts Institute of Technology.

2018 Honorees

Academic Leader:
FAISAL KALEEM
Metro State University, Professor, Department of Computer Science and Security, Executive Director, MN Cyber

IT Audit:
STEEN FJALSTAD
Midwest Reliability Organization, Security and Mitigation Principal

Application Security:
JENNIFER CZAPLEWSKI
Director, Target Product Intelligence team lead

Security Awareness Program:
CHRYSA FREEMAN
Code42, Manager, Security Governance Risk & Compliance Awareness

Emerging Technologies:
TODD CARPENTER
Adventium Labs, Chief Engineer

Security Operations:
NEAL DAWSON
State of Minnesota, Minnesota IT Services, Vulnerability Management Director

Global Security Leader:
BRADLEY BREKKE
Mayo Clinic, Chief Security Officer (Interim)

Student:
RICHARD KETELSEN
Metropolitan State University, Student

Governance Champion:
COL. STEFANIE HORVATH
Minnesota Army National Guard, Chief Information Officer (CIO) for the Minnesota Department of Military Affairs; Executive Director Enterprise Services, Minnesota IT Services
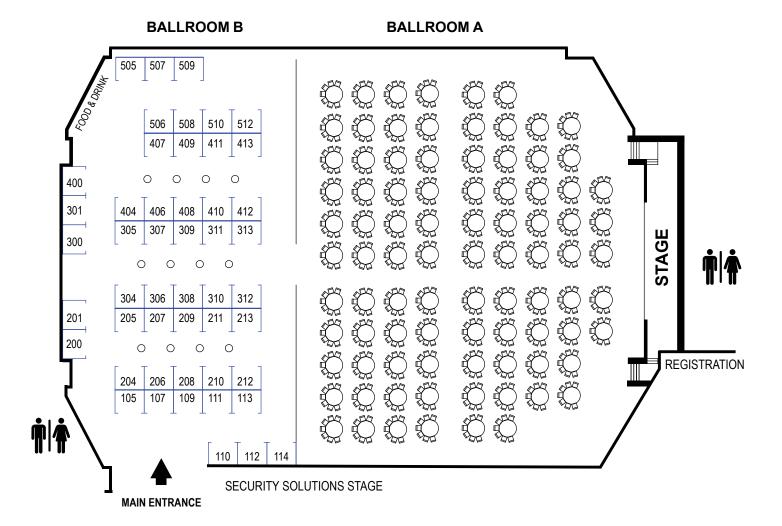
Visionary Program Leader:
JIM O'CONNER
Cargill, Chief Information Security Officer

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| 506 | 508 | 510 | 512 |
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400

301

300

| 404 | 406 | 408 | 410 | 412 |
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201

200

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REGISTRATION

SECURITY SOLUTIONS STAGE

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400 Darktrace	**408** InfraGuard	**309** NaviLogic	
200 DirSec	**508** ISACA Minnesota	**308** OKTA	
509 Endgame	**412** (ISC)² Twin Cities	**209** Preepmt	
	413 ISSA MN Chapter		

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Security Leader or *Business* Leader?

Mike Johnson

By Mike Johnson, James J. Renier Chair in the Management of Security Technologies and Director of Graduate Studies for the M.S. in Security Technologies at the Technological Leadership Institute, University of Minnesota

The business risk landscape today is fraught with high-profile threats from all directions. Some of the top risks facing organizations include the rapid pace of innovation and change, regulatory pressures, the competitive environment, national and international political challenges and, of course, cybersecurity threats. As security practitioners and leaders, we are all well aware of the many risks posed by cybersecurity threats and the potential negative impacts they represent to our organizations. Boards of Directors and senior leadership are also very concerned, and discussion of these issues at the highest levels has increased dramatically in recent years.

But are security leaders and business leaders speaking the same language when it comes to cybersecurity risks?

Effective business leaders typically have strong experience and expertise in many areas like finance, sales and product issues, but they often lack deep understanding of IT and cybersecurity issues. Given the background of most leaders it is understandable that conversations in the board room tend towards financial or business operations risks; yet, in order to be truly effective, these leaders are required to understand and properly manage all types of risks impacting the organization.

With the media regularly reporting on potentially business ending cyberattacks and global cyber impacts it can be difficult for business leaders to make good decisions regarding cyber risks. But in order to achieve an organization's goals, investments in risk mitigation must target the most critical risks whether they be financial, operational or cybersecurity related.

Here is where a strong security leader can provide value to an organization's leadership. While cybersecurity risk management requires deep and specialized knowledge, so does managing other types of risk. At the end of the day, cybersecurity risk is just another type of risk needing funding, focus and leadership understanding. A good cybersecurity leader must translate the business impact of cyber risks compared with all other risks facing the organization. This "so what" aspect of potential cyber impact also requires a security leader who understands both the technical and the business aspects of an issue, as well as one who can communicate the enterprise impact of the issue to business leadership and align the resource needs for cyber and other risk management with the business strategy and goals. This ensures that the limited resources available for managing risk are applied in a way that best supports the overall strategy of the organization, and not just fear of the latest news report of cybergeddon.

Since all decision makers are ultimately risk managers, security leaders need to speak both technology and business in order to bridge the gap and educate those decision makers on cyber issues in the context of the larger business context. All risks from all sources must be managed holistically if one wants to be successful at business management, so effective security leadership means more than just a deep technical knowledge of IT and security. It also requires a strong understanding of and support for the business' operations, strategies and goals, so that cybersecurity is just another component of a well-run organization.

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www.bigswitch.com

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www.bcpa.org

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www.engage.isaca.org/minnesotachapter

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www.mnc3.org

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UMSA (Upper Midwest Security Alliance) is a nonprofit alliance of security and risk-related organizations that serves business, government and education professionals in the upper Midwest, collaborating with professional associations, educators and industry-leading companies to provide professional development opportunities that contribute to a stronger security foundation for organizations. UMSA is the host of the Secure360 Conference in the Twin Cities as well as the annual Student360 event.

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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.

GDPR

GDPR, or the General Data Protection Regulation, is a European Union regulation on data protection and privacy for all individuals within the EU and the European Economic Area. It also addresses the export of personal data outside those areas. The GDPR aims to give control to individuals over their personal data.

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).

Curbing Cybersecurity Incidents Through Effective Leadership and a Continuous-Improvement Mindset

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, privacy, technology law, artificial intelligence, trademarks, patents, and copyright issues. Eran also serves in a variety of cybersecurity thought-leadership roles. He is a graduate of the FBI's Citizen Academy and works closely with the FBI, Department of Justice, Secret Service, and colleagues from the private and academic sectors to 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

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Headline-grabbing cybersecurity incidents typically involve Russian, North Korean, and Chinese hackers; devastatingly-powerful malware (Sutxnet); and data breaches that involve millions of records (Anthem, for example, lost 78.8 million patient records). For those in the cybersecurity trenches, the steady stream of smaller cyber incidents remains a considerable, stubborn challenge that directly impacts individual patients and the entire healthcare ecosystem.

The Department of Health and Human Services' Office of Civil Rights (OCR) is tasked with enforcement of healthcare breaches and tracks these incidents on a rolling 24-month basis. A year ago, 348 incidents were logged by the OCR, and as of this writing there are 411, with the following categories representing the most significant incidents:

- Though the number of incidents only modestly increased, the most frequent incident category, "Hacking/IT Incident" stands at 46%, up from last year's 41%. This increase signals that this type of breach is persistent and occupies nearly half of all tracked incidents.

- The "Unauthorized Access/Disclosure" category remained nearly steady at 34% from 36%.

- Fortunately, "Theft" incidents dropped four percentage points from last year's 18%.

Though they paint a somber picture, these figures are instructive. Covered entities and their business associates can use them to better understand and prioritize their cybersecurity management efforts.

Let's focus on the "Hacking/IT Incident" category. It is no secret that much of it can be traced to ineffective cybersecurity leadership within the organization. Therefore, sufficient investment in the organization's cybersecurity leadership is an important effort for decreasing a significant source of cybersecurity breaches.

However, this investment is also an important effort aimed at demonstrating to all relevant constituencies that the organization has a legally-reasonable cybersecurity stance. Doing so is especially important in a legal environment that is shifting from the traditional "hands-off" approach, where courts could be counted on to provide the organization's leadership with a great degree of operational latitude, to one that requires more demanding operational standards.

Transforming the organization's ineffective cybersecurity leadership is far from being a one-off event. It is more aptly viewed as a virtually endless journey, where convincingly demonstrating that reasonable efforts are made can make the difference between a fairly good and (very) bad day in court. This is where continuous improvement kicks in. Organizations that are good at building a continuous-improvement cybersecurity mindset into their operations have a significant advantage over those who are not. However, this mindset must be cultivated by the organization's leadership.

Importantly, this mindset takes a holistic view of the cybersecurity ecosystem. It borrows, as a matter of course, from other legal frameworks and best practices. The approach is a practical one; for it recognizes that there is no single data security measure that can meet all security requirements. It also understands that from a legal perspective, a legally-reasonable data security regime is one that is highly dependent on effective security layering. Support for this view is evident in HIPAA (164.308(a)(1)(ii)(B)), but it also exists elsewhere, in non-health sector legal and best practices frameworks such as the European Union's General Data Protection Regulation, "GDPR" (e.g., Article 25); PCI DSS v2.0 (e.g., R11.2, 11.3); and COBIT5 (APO13.01) as well as many other sources.

The continuous improvement mindset and its security layering inquiry has a long to-do list. It must consistently check for gaps in the organization's regulatory compliance, assess the extent to which the organization is in compliance with its contractual obligations (breach latency), examine supply chain vulnerabilities, review the existence of data security and privacy practices that are out of sync with current policies and procedures (e.g., training), etc. Each of these tasks tie directly into the larger effort of curbing Hacking/IT Incidents, and as long as the organization's leadership is effectively engaged in driving this effort, there is a good opportunity to make a difference for individual patients and the entire healthcare ecosystem.

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