

Agenda

All Summit Sessions will be held in the Emerald Room (unless noted).

All approved presentations will be available online following the Summit at <https://files.sans.org/summit/healthcare2014>.

An e-mail will be sent out as soon as the presentations are posted, typically within 5 business days of the event.

Wednesday, December 3

7:30 – 9:00 am

Registration

8:00 – 8:45 am

Networking Breakfast

(LOCATION: GOLD RUSH A – LOWER LEVEL)

Presented by



Speaker: *Rich Reybok, Chief Technology Officer, Vorstack*

9:00 – 9:50 am

Hacking Your Life

David Kennedy, Founder, TrustedSec, LLC; Co-Founder & CTO, Binary Defense Systems

The security industry is trying to push forward in a changing environment where the dynamics of hackers change almost daily. The healthcare industry is truly unique based on the types of systems that need to remain protected, but are difficult to keep secure (due to loss of life, etc.). This presentation walks through the current techniques used by hackers, but most importantly, how vulnerable we truly are in the medical field. The healthcare sector is years behind other industry verticals, but we have the chance to change that now. This talk will cover recent assessments performed and some of the alarming trends we see consistently across the industry.

9:50 – 10:20 am

Networking Break in the Expo Hall

(LOCATION: CRYSTAL ROOM)

Visit the expo hall to have your passport to prizes booklet stamped to win one of many raffle items.

10:20 – 11:00 am

Building and Measuring a Software Security Initiative in the Healthcare Domain: What, How, and Why

MODERATOR:

Gary McGraw, CTO, Cigital

PANELISTS:

Jonathan Bittle, Director, Kaiser Permanente

Sabastian High, Director, Product Security & Assurance, McKesson Corporation

Michael Landeck, Cyber Security Product Strategist

David Nathans, Product & Solution Security Officer, Siemens Healthcare

Tim Tompkins, Director, Global Information Security Innovation, Aetna

Software security is a mature field among financial services firms and independent software vendors. Drawing on real-world experience in those verticals and data from the BSIMM (<http://bsimm.com>), the panel will discuss why software security matters in healthcare, what a software security initiative looks like, how to build one (from scratch in some cases), and how to measure progress.



11:00 am – Noon

Future-Proofing Healthcare Security Solutions

MODERATOR:

John Pescatore, Director of Emerging Security Trends, SANS Institute

PANELISTS:

*Simon Crosby, Co-Founder & CTO, Bromium**Rajiv Gupta, CEO, Skyhigh Networks**Patrick Peterson, CEO & Founder, Agari**Jason Polancich, Founder & Chief Architect, SurfWatch Labs*

The technology, business and threat environment around the healthcare industry will continue to change rapidly over the next five to ten years – and probably forever. However, the focus on controlling health care costs means security budgets will not expand as rapidly, if at all. Security products and services need to get more effective against evolving threats to health care systems and personal health information, but also more efficient – reducing the costs of detecting and mitigating known threats in order to free up budget to address evolving threats. The security technology and service providers who can meet that challenge will become the next generation security market leaders. This discussion will give you a chance to hear the viewpoints of innovative security vendors and ask them your own questions about critical security trends.

Noon – 1:15 pm

LUNCH & LEARN

(LOCATION: GOLD RUSH A – LOWER LEVEL)

Presented by

**iOS8 & Healthkit: Observations, APIs, and More!***Alban Diquet*

Data Theorem will release preliminary results on its iOS8 Healthkit research. The presentation will briefly review the Healthkit APIs, and then discuss their security and privacy implications.

LUNCH & LEARN

(LOCATION: GOLD RUSH B – LOWER LEVEL)

Presented by

**The Mobile Landscape - Hidden Risks of Transacting in the Mobile Space***Chris Purvis, VP - Business Development, InAuth*

Mobile adoption continues to grow at an explosive pace thanks to advancements and affordability in Smart Phone technologies. Your customers want to do business with you wherever they are and whenever they want by using Smart Phone Apps, but what are the hidden risks and dangers of allowing sensitive transactions in the mobile space?

1:15 – 2:00 pm

Prioritizing Defenses with the Critical Security Controls*James Tarala, Senior Instructor, SANS Institute*

The Critical Security Controls project began in 2008 as a way to transform how organizations measure and monitor the success of their information security programs through the implementation of proven and prioritized security controls. Fifteen of the twenty controls can be automated, some at limited cost to the organization, and the data is readily available to be presented in conference and board rooms. Upon implementing, healthcare organizations will have the ability to measure compliance, track progress, and know when they've reached certain goals.

They were developed and agreed upon by a consortium including NSA, US Cert, DoD JTF-GNO, the Department of Energy Nuclear Laboratories, Department of State, DoD Cyber Crime Center as well as the top commercial forensics experts and pen testers serving the banking and critical infrastructure communities. Since the U.S. State Department implemented these controls they have demonstrated "more than 80% reduction in 'measured' security risk through the rigorous automation and measurement of the Top 20 Controls." (www.sans.org/critical-security-controls)



2:00 – 2:45 pm

Just What The Doctor Ordered?*Scott Erven, Associate Director - Medical Device & Healthcare Security, Protiviti*

You have heard the stories of delivering lethal doses of insulin to a pump, or delivering a lethal shock to a vulnerable defibrillator. But what is the reality of medical device security inside the world's healthcare systems? Join Scott for an overview of his 3-year research project in medical device security and what healthcare organizations need to do to address the risks of a cyber attack. This discussion will highlight the fallout from security standards not being a requirement for medical device manufacturers, and our work in identifying and reporting vulnerabilities. We will discuss the recent success and traction we have gained with the FDA, DHS and device manufacturers in addressing these security issues.

2:45 – 3:15 pm

Networking Break in the Expo Hall

(LOCATION: CRYSTAL ROOM)

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3:15 – 3:45 pm

Data Breaches and Securing Healthcare Humans*James Tarala, Senior Instructor, SANS Institute*

Data breaches are becoming a new part of our daily experience. Healthcare organizations, once thought by many to be immune from targeted threats, are realizing more and more that they are becoming the focus of targeted threats. Many of these breaches are able to be successful because of a lack of understanding on the part of healthcare personnel. In this presentation, James Tarala will describe some of the unique challenges facing healthcare professionals as they work to defend their organizations from the threat.

3:45 – 4:00 pm

Results of the 2nd Annual SANS Health Care Security Survey*Barbara Filkins, Senior Analyst, SANS Institute*

Is the industry ready, willing, and able to respond to the brave new world of electronic health care? Can health care as a whole keep up with advancing cyber threats? What, if anything, have healthcare organizations learned since last year's survey? Find out where you stand relative to your peers – and your competitors.

**WEBCASTS:****SANS 2ND Survey on the State of Information Security in Health Care Institutions****PART 1: Survey Results and Mobile Health Concerns and Controls**

- Tuesday, December 09 at 1:00 PM EST
- Presenters: Barbara Filkins, Frank Kim (moderator), Paul Crutchfield, Elias Manousos, Rajiv Raghunarayan, JD Sherry

REGISTER HERE

sans.org/webcasts/[2nd-survey-state-information-security-health-care-institutions-1-98707](http://sans.org/webcasts/2nd-survey-state-information-security-health-care-institutions-1-98707)**PART 2: Survey Results and Cloud Computing Concerns and Controls**

- Thursday, December 11 at 1:00 PM EST
- Presenters: Barbara Filkins, Frank Kim (moderator), Nicholai Piagentini, Jay Schulman, Jonathan Trull

REGISTER HERE

sans.org/webcasts/[2nd-survey-state-information-security-health-care-institutions-2-98702](http://sans.org/webcasts/2nd-survey-state-information-security-health-care-institutions-2-98702)

#HealthcareSummit

4:00 – 5:00 pm

The Medical Device Security Threat: Bad Medicine, or No Big Deal?

MODERATOR:

Frank Kim, Executive Director, Kaiser Permanente

PANELISTS:

Michael McNeil, Global Product Security & Services Officer, Philips Healthcare

Dale Nordenberg, Co-Founder & Executive Director, Medical Device Innovation, Safety & Security Consortium (MDISS)

Jay Radcliffe, Senior Security Researcher, Rapid7

Dan Wilson, Manager Cyber Security Intelligence & Response Team - North America, IBM Security Services

We can all agree that medical devices – like insulin pumps or pacemakers – not only need to serve their salutary purposes, but also be immune from cyber attacks. Many feel that they are, and that the threat has been overblown. Others say that these devices pose a clear and present danger. Hear both sides of the issue in this good-natured but spirited debate.

5:00 – 5:15 pm

Closing Remarks

Jim Routh, CISO, Aetna & Board Member, NH-ISAC

Chuck Kirk, Director of Security Operations, McKesson

5:30 – 6:30 pm

Reception

(LOCATION: EMERALD FOYER)

Hosted by



Thank you for attending the SANS Summit.

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**You may leave completed surveys at your seat
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Thursday, December 4

8:00 – 9:00 am

Breakfast Panel

(LOCATION: GOLD RUSH A – LOWER LEVEL)

Even More Future-Proofing: Continuing the Conversation on Healthcare Security Solutions

MODERATOR:

John Pescatore, Director of Emerging Security Trends, SANS Institute

PANELISTS:

Jukka Alanen, VP Business Development, Arxan Technologies

Josh Corman, CTO, Sonatype

Isabelle Dumont, Director, Industry and Vertical Initiatives, Palo Alto Networks

Kenneth Peterson, CEO, Churchill & Harriman

JD Sherry, Vice President, Technology and Solutions, Trend Micro

This discussion will pick up where yesterday's panel left off, giving you a chance to hear the viewpoints of innovative security vendors and ask them your own questions about critical security trends. Breakfast will be served.

9:10 – 10:00 am

Risk-Driven Information Security for Healthcare: Adjusting Controls Based on Changes in Threats

Jim Routh, CISO, Aetna & Board Member, NH-ISAC

This keynote presentation introduces a fundamentally new approach to the drivers for an effective information security program for the healthcare industry using risk management practices and technology portfolio management practices. Jim is one of the growing numbers of information security leaders migrating into the healthcare industry applying risk-driven information security practices in an industry driven historically by a complex web of regulatory requirements at the federal, state and local levels. He will share his perspective that compliance alone is not enough. Security programs need to anticipate and prepare for risks and make real-time adjustments to controls based on shifts in threat trends to make the most efficient and cost-effective use of scarce resources.

10:00 – 10:30 am

Networking Break in the expo Hall

(LOCATION: CRYSTAL ROOM)

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10:30 – 11:30 am

The Not-So-Secret Life of Your Identity in Health Care: Identity Management in The Future

MODERATOR:

Frank Kim, Executive Director, Kaiser Permanente

PANELISTS:

*Jonathan Hare, President, Webshield Inc.**Terry Rice, CISO, Merck & Co., Inc. & Board Member, NH-ISAC**Bob White, Director of Security & Compliance, Health Catalyst*

The health care industry has historically focused on determining and verifying patient's identities to ensure the right care is provided to the right patients. Heavy reliance on the use of Social Security numbers (SSNs) as a unique identifier has made the handling of SSNs pervasive in the health care ecosystem. This panel will introduce and explore alternatives for authentication for health care patients in the near future based on models and technology available today. The goal is for providers, payers and the federal government (HHS/CMS) to improve patient authentication without creating more risk toward medical identity theft that can benefit the entire ecosystem along with individual consumers.

11:30 am – 12:15 pm

The Public-Private Collaboration - Bridging the Gap to Protect Health Information*Rob Foster, Deputy Chief Information Officer and Acting Chief - Information Security, U.S. Dept. of Health and Human Services*

The interconnectivity of health information systems provides unique challenges in protecting personal health information (PHI). The challenge requires the Public and Private sectors to work together to defend against threats within the healthcare community and to protect the PHI of patients. Learn how HHS is establishing lines of communication to gain better situational awareness, collaborating to defend and respond to incidents, and reducing the impact of a breach when it occurs through Public-Private communications.

12:15 – 1:30 pm

LUNCH & LEARN

(LOCATION: GOLD RUSH A – LOWER LEVEL)

Presented by

*Will Tipton, Security Engineer*

Infogressive, a Fortinet platinum partner, will discuss next-generation firewall technology. Learn how Fortinet products can improve your organization's security and simplify your network for a fraction of the cost of other manufacturers.

LUNCH & LEARN

(LOCATION: GOLD RUSH A – LOWER LEVEL)

Presented by

**How Real-Time Polymorphism Protects Websites From Unknown Attacks***Shuman Ghosemajumder, VP Product Management*

This presentation will introduce an innovative new technology that protects against a new class of attacks on websites and web applications.



1:30 – 2:15 pm

A Look at the Healthcare Threat Landscape with Lessons from First Responders*Justin Turner, Threat Intelligence Support Team Lead, Dell SecureWorks*

Leveraging alert data compiled from over 4000 customers, we will show how multiple industry verticals compare to the healthcare industry and highlight differences where they occur. Then using information collected during incident response and advanced threat hunting engagements we will share some insights into common tactics, techniques, and procedures observed in the past year and identify examples of security controls that will help detect and prevent such attacks.

2:15 – 3:00 pm

A Secure Investment: What Leading VCs Think About the Future of Cybersecurity

MODERATOR:

John Pescatore, Director of Emerging Security Trends, SANS Institute

PANELISTS:

*Asheem Chandna, Greylock Partners**Karim Faris, Google Ventures**Ted Schlein, Kleiner Perkins Caufield & Byers**Rama Sekhar, Norwest Venture Partners*

Threats continue to evolve and the challenges of security healthcare systems demand innovative security solutions. In previous waves of threats, small startup security companies delivered that innovation and often grew rapidly to become trusted enterprise security technology suppliers. Will that be true for healthcare security in particular, or will developments such as cloud, mobility, healthcare exchanges, etc. change the overall security markets in radical ways? A panel of experienced investors in security companies will discuss these and other issues.

3:00 – 3:30 pm

Networking Break in the Expo Hall

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3:30 – 4:00 pm

Information Sharing, STIX & TAXII*Desiree Beck, Principal Cyber Security Engineer, MITRE**Aharon Chernin, CTO, Soltra**Chuck Kirk, Director of Security Operations, McKesson**Rich Reybok, Chief Technology Officer, Vorstack**Josh Singletary, CIO, NH-ISAC*

MITRE developed a set of standards (STIX and TAXII) to make sharing of cyber security threat indicators feasible from a “machine to a machine” perspective enabling enterprises to dramatically improve the time it takes cyber security professionals to understand and manage cyber security threats. The NH-ISAC is implementing a platform for members that uses STIX and TAXII provided through a work effort led by the FS-ISAC and the Depository Trust & Clearing Corporation called Soltra Edge. This session will provide information on how NH-ISAC members can benefit from the use of Soltra Edge leveraging STIX and TAXII and hear from MITRE on how these standards are changing the industry.



4:00 – 5:00 pm

A Healthy Perspective: What Healthcare Cybersecurity Leaders Learned From Other Industries

MODERATOR:

Frank Kim, Executive Director, Kaiser Permanente

PANELISTS:

Jim Doggett, SVP, Chief Security Officer & Chief Technology Risk Officer, Kaiser Permanente

Elliott Glazer, Chief Security Officer, Dun & Bradstreet

Stash Jarocki, Director – IT Security, Phoenix Children's Hospital

Steve Katz, President, Security Risk Solutions LLC

Terry Rice, CISO, Merck & Co., Inc. & Board Member, NH-ISAC

While some leaders in healthcare cyber security worked their way up through the ranks of healthcare organizations, many cut their teeth in very different industries. Whether they started out in the military, banking and financial services, or elsewhere, our panelists will share the ways their experience helped them bring innovative thinking to careers in healthcare, and the challenges of making the leap.

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