



SECURITY OF THINGS

TRUST IN THE INTERNET OF THINGS



Smart Card
Alliance

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Fall 2016

IOT SECURITY COUNCIL

The Internet Society defines Internet of Things (IoT) to mean “the extension of network connectivity and computing capability to objects, devices, sensors and items not ordinarily considered to be computers. These ‘smart objects’ require minimal human intervention to generate, exchange and consume data; they often feature data collection, analysis and management capabilities.”

Analysts are forecasting over 26 billion IoT connections by 2020 for a wide variety of applications in many industries, including industrial, energy, automotive, smart city, healthcare, freight/logistics, and home automation. The pervasiveness of connected devices and the impact that they will have on society demand proactive discussion of potential security vulnerabilities and architectures/technologies that have been designed to mitigate the vulnerabilities. Security vulnerabilities have already been found in initial IoT implementations; it is critical for the growth of the market that security and privacy be designed into the IoT ecosystem.

The Smart Card Alliance IoT Security Council was formed in 2016 to develop and promote best practices and provide educational resources on implementing secure IoT architectures using “embedded security and privacy.” The Council will focus on IoT markets where security, safety and privacy are key requirements and will leverage the industry expertise and knowledge gained from implementing embedded security technology for payment, identity, healthcare, transport and telecommunications systems to provide practical guidance for secure IoT implementations. The Council will provide a unified voice for the industry to the broader IoT ecosystem.

IOT SECURITY COUNCIL PRIORITIES

The Council works on projects to provide educational resources and define best practices for securing IoT applications and ecosystems. The Council will work on projects to:

- Accelerate market adoption of secure IoT architectures that incorporate embedded security and privacy
- Provide a forum for intra-industry and cross-industry collaboration on secure IoT architectures
- Provide a business-focused organization to discuss best practices and implementation of IoT architectures using embedded security and privacy
- Provide a single organization where all industry stakeholders can network, share implementation experiences, and discuss applications and security approaches
- Identify and collaborate with other industry organizations to define and promote standards for secure IoT architectures using technologies that provide embedded security and privacy

COUNCIL ACTIVITIES

The Council has focused its launch activities on educating members and developing initial educational resources. Projects have included:

- Identifying priority vertical markets, use cases and projects
- Developing a framework for discussions on the IoT ecosystem and security requirements
- Developing a white paper on embedded hardware security for IoT applications
- Developing and launching the content portal, www.IoTSecurityConnection.com

Interim Leadership Committee

Stu Cox, Giesecke & Devrient
Willy Dommen, Accenture (chair)
Gonda Lamberink, UL
Sami Nassar, NXP Semiconductors
Christopher Williams, Exponent

Council Members

ABnote
Accenture
Advanced Card Systems Ltd.
Allegion
American Express
Bell Identification N.V.
CH2M
Chase Card Services
Consult Hyperion
CPI Card Group
Datawatch Systems
Defense Manpower Data Center
Discover Financial Services
Entrust Datacard
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FIS

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Infineon Technologies
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Initiative for Open Authentication
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San Francisco Bay Area Rapid Transit District (BART)
Scheidt & Bachmann USA
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SigNet Technologies, Inc.
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SureID, Inc.
TSYS
Tyco Software House
Underwriters Laboratories (UL)
U.S. Department of Transportation/Volpe Center
Valid USA
Vantiv
Verifone
Visa Inc.
Vix Technology
Xerox
XTec, Incorporated

FIND IOT SECURITY COUNCIL RESOURCES ONLINE:

www.smartcardalliance.org/activities-councils-internet-of-things-security

WELCOME LETTER/2016 SECURITY OF THINGS CONFERENCE

Dear Attendees,

Welcome to the Hilton Rosemont for our inaugural “Security of Things Conference,” which we are delighted to present to you.

The Internet of Things (IoT) represents a world of connected devices, which are expected to reach 21 billion by the year 2020. New marketplaces, such as connected cars, smart homes, smart cities, and smart industrial systems, represent significant opportunities for embedded secure chip technology and enhanced IoT security. As such, this event is a first for us, as we enter into an arena of a brand new convergence of technologies. We are primed to help the industry address and respond to security and privacy challenges such a connected world presents.

This conference is an excellent opportunity for Alliance members and interested professionals to help shape the future security of “things,” much like we have done to shape the security of EMV chip cards, contactless payments, e-passports, government identity credentials, NFC mobile payments, open-loop transit payments, and health ID. The markets where IoT security is a critical component include payments, mobile, transportation, healthcare, identity and access security, areas in which you are already familiar.

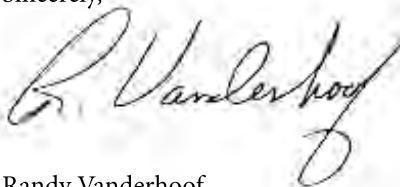
We carefully developed an agenda of sessions featuring high-level speakers that we hope will help position the Alliance, and our member organizations, as a major force in this market. As you review the agenda you’ll note that there is a strong focus on the advantages and challenges that IoT presents across every market, and the need for secure IoT architectures using embedded security and privacy technology. If your organization is not part of the Alliance today, consider becoming a member.

You’re here over the next two days because you will have an important role in the future to leverage your knowledge and expertise in the broadly defined IoT space. We welcome your input, thoughts and discussion in this highly competitive landscape.

Smart Card Alliance events are also known for networking and a comprehensive selection of sponsors. I encourage you to take full advantage of your time at the Security of Things conference by chatting with colleagues, making new contacts, and visiting our sponsors to learn about their offerings and how they may help your business.

If you have questions or ideas, I invite you to seek me out for conversation. Thank you for your support of the Smart Card Alliance, and enjoy the conference.

Sincerely,



Randy Vanderhoof
Executive Director, Smart Card Alliance

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PREMIER SPONSOR



NXP is a world leader in secure connectivity solutions for embedded applications. NXP is driving innovation in the secure connected vehicle, end-to-end security & privacy and smart connected solutions markets. For more information: www.nxp.com / Follow us at <http://blog.nxp.com/>



Exponent provides consulting, engineering and analytical support to companies seeking to enhance the security, reliability, durability, and specifications compliance of internet of things, connected devices, components and electronic information systems implementations. We offer a wide range of testing and evaluation services for industries such as government, health care, finance, and transportation. In the fields of identification and information technologies, Exponent's agile teams have helped numerous clients with independent testing, design analyses, reliability studies, performance assessments, standards compliance, advanced analytics & machine learning algorithms, and engineering & development support. Exponent has helped clients resolve and mitigate numerous problems, failures, and other operational issues with connected devices, authentication systems, mobile computing platforms, and numerous other components and systems. For more information: www.exponent.com



Giesecke & Devrient
Creating Confidence.

Giesecke & Devrient works behind the screens to design, build and operate innovative solutions that secure mobile life. We delivered the first subscription management platform in 2012 and continue to lead IoT and M2M developments. As a worldwide leader in Mobile Security solutions, we leverage decades of experience to deliver best-in-class Secure Elements and remote credential lifecycle management, plus OTA, HCE, digital wallets, tokenization, EMV and TSM services. In the emerging IoT and Smart Wearables market, G&D partners with both established enterprise players and innovative startups to incorporate the highest level of security in IoT communications and transactions. Giesecke & Devrient has been trusted by mobile network operators, technology companies, financial institutions and world governments to secure their physical currencies and digital assets for over 160 years. Get to know us at www.gi-de.com.



SAFRAN

Safran Identity & Security is a global leader in identity and security solutions for an increasingly digital and connected world. Deploying solutions in more than 100 countries, the company employs more than 8,700 people in 57 countries and generated revenues of nearly €1.9 billion in 2015. Backed by more than 40 years of experience in biometrics, Safran develops innovative technologies for a wide range of markets and applications for people, governments and business. Our solutions manage identities, secure transactions and contribute to public security protecting borders, for safer and easier everyday lives. For more information: www.safran-identity-security.com / Follow us on LinkedIn and Twitter!



Identiv, Inc. is the leading global player in physical security and secure identification. Identiv's products, software, systems, and services address the markets for physical and logical access control and a wide range of RFID-enabled applications. Customers in the government, enterprise, consumer, education, healthcare, and transportation sectors rely on Identiv's access and identification solutions. Identiv's mission is to secure the connected physical world: from perimeter to desktop access, and from the world of physical things to the Internet of Everything.

SPEAKERS



BRIAN ABE
NIST NCCoE



PEDRO ABREU
Chief Strategy Officer, ForeScout

With more than 20 years of industry leading operational and management experience, Pedro leads corporate strategy. Prior to joining ForeScout, Pedro was Senior Vice President of Strategy and Go-To-Market Operations at Intel Security. In addition, he has held several senior-level strategy and operations roles with EMC, Documentum and McKinsey. Pedro earned a MBA from Haas School of Business at U.C. Berkeley, and a CS in Computer Science from Instituto Superior Técnico in Portugal.



SHAKTI ASHIRVAD
Samsung



STEFAN BARBU
Head of Secure ID Americas, NXP Semiconductors

Stefan Barbu is leading NXP's Secure Identity business in the Americas, based in Washington DC. In this role he oversees the secure electronic document projects for all the Governments in the Region. Stefan has been in the electronic documents industry for more than 15 years in various R&D, marketing, sales and business development positions in Europe and the USA. He has been involved in numerous electronic passport and ID projects on all the continents. Stefan holds a PhD on contactless smartcards and has been supporting the introduction of this technology in the secure documents and systems

since 2001. His early work contributed the development of the first electronic passports, as well as the emergence of global standards such as the Near-Field Communication (NFC).



ERNST BOVELANDER
CBO, Brightsight

Ernst Boveland M.Sc. is CBO at Brightsight, the number one security lab in the world. Ernst is working in the information security business for close to 30 years. He has gained his experience in projects with clients from a variety of domains, including banking, defence, automotive, medical and governments.



DAVID BRITTON
Vice President of Industry Solutions, Experian

As one of the very first Internet fraud investigators, David Britton played central roles in the development of cutting edge fraud prevention technologies with several leaders in the E-Commerce space including OnSale.com and Egghead.com. He brings a wealth of experience to his current position and a unique insight into the criminal methodology behind Internet payment fraud. At OnSale and Egghead, David was responsible for significantly reducing and maintaining some of the lowest fraud loss numbers since the companies' inception. And at a time when most merchants had not yet contemplated fraud prevention tools, he was already encouraging the implementation of an expert investigative team and the creation of systems and processes to combat fraud. Prior to joining Experian, David was a private consultant to various fraud prevention enterprises and the former director of training at CrediView, Inc., where he developed Internet fraud prevention training courses for merchant fraud and customer service teams. He has been a featured speaker at industry events, and has authored numerous papers concerning anti-fraud measures.



MAARTEN BRON
Director of Innovations, UL

Maarten Bron is Director of Innovations for the transaction security business of Underwriters Laboratories. In this role, he is responsible for identifying and influencing industry change and demand drivers, and to translate these into tangible business benefits for UL's customers. Maarten brings more than 17 years of payments industry experience to his role, and has made significant contributions to the adaptation of EMV globally, and still remains the trusted advisor for many senior executives of the world's leading financial institutions that Maarten and his team assisted. At present, Maarten is working from UL's office in Silicon Valley – responsible for the growth of the US operations and close to the innovative players in the payments industry.



ANDREA CHOINIERE
Novetta

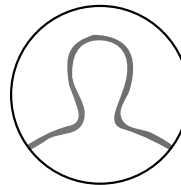
Andrea Choiniere is a Senior Consultant within Novetta's Identity Intelligence group. Ms. Choiniere leads Novetta's Materials Laboratory, specializing in materials development and biometric spoofing. In addition, she provides subject matter expertise services to DoD and the IC in cryptocurrencies and biometrics, and consults on social networks and online identity issues. Andrea brings a diverse background perspective to the field, with experience in chemistry, technical theater, database design, GIS, and market research.



TOUHID CHOUDHURY
SVP, Product Management, Kona Software Lab Ltd.

Touhid Ahmed Choudhury is the senior vice president of product management at Kona Software Lab Ltd. He has 10 years' experience in the telecom and smartcard domains. He

guides development of new security and payment products and new features of existing products based on market trends and user needs. His team also provides channel support including positioning guidance and training to marketing and sales. Touhid is currently working on enhancing Kona's Digital Card Platform with the next-generation of payment interfaces and security capabilities.



STU COX
Product Manager, Giesecke & Devrient

Stu Cox is a Product Manager at G&D with over ten years of experience in product management in the telecommunications industry and IoT space. Stu has been involved in the evolution of the cellular landscape since the analog to digital conversion. He plays an active role in providing services and solutions to the telecommunications industry as it is now expanding into IoT. He is currently responsible for secure IoT products and service for G&D's customer base across North America.



WILLY DOMMEN
Regional Transportation Lead,
North America, Accenture & SCA
Board of Directors

Willy Dommen is an executive in Accenture's infrastructure and transportation business. He has been leading the development of mobile and smart card projects worldwide for the last 20 years. He was a key contributor on smart card, RFID and mobile payment assignments around the world, for both government and private industry including Australia, Singapore, London, New York, Washington DC, and Los Angeles, all of which started from the work he completed for Metropolitan Transportation Commission's Clipper (formerly TransLink®) program in the San Francisco Bay Area. Mr. Dommen served as the hands-on advisor for the BART-Sprint mobile payment trial. He was also a leader for the Homeland Security Presidential Directive (HSPD) 12 initiative for several federal government agencies. In addition, Mr. Dommen's client and project lists include development of national health care card

programs in Italy and Australia, leading edge technology evaluation and strategy development for financial services companies, RFID strategy development for global manufacturers of electronic systems. He continues to serve clients with resolving strategic and technical issues related to contactless smart card and mobile payments technology. Mr. Dommen authors articles and presents internationally on strategic issues with regard to smart card and mobile payment systems.



DR. CHRIS EDWARDS
CTO, Intercede

Chris was responsible for the initial design of the MyID® product and has over 30 years' senior level experience within the IT industry, 16 of them within the security sector. He was instrumental in making MyID the first electronic personaliza-

tion system to achieve FIPS 201 accreditation as part of the US HSPD-12 PIV Approved Products Scheme, and has substantial experience of working on both US and UK government security projects. Chris now runs the Intercede Labs team, developing new product solutions to meet emerging challenges in the silicon-to-service ecosystem.



KEVIN GILLICK
Executive Director, GlobalPlatform

Mr. Gillick is responsible for driving awareness and accelerating adoption of the GlobalPlatform Specifications within worldwide markets. Mr. Gillick coordinates and manages the organization's strategic planning and oversees all marketing and business development initiatives within key vertical market sectors. He works closely with GlobalPlatform's Marketing

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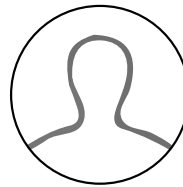


Director, Technical Director, all three of the organization's technical committees – Card, Device and Systems – and the GlobalPlatform Task Forces. Mr. Gillick is directly responsible to the Board of Directors and the GlobalPlatform membership. Prior to his appointment to a full-time role within GlobalPlatform, Mr. Gillick held various marketing and business development positions at a range of multi-national technology (or technology-based) corporations. Mr. Gillick has served as GlobalPlatform's full-time Executive Director since 2006. Prior to this appointment, he was actively involved in the organization as GlobalPlatform's Marketing Center Chair and has also served the Smart Card Alliance on the Board of Directors, with a two-year term as Chairman of the Board.



IMRAN HAJIMUSA
VP of Business & Technology,
Verifone

Imran is a global technology and business leader with 20+ years of experience working and living in Singapore, Germany and USA. He has a strong background in mobile, payment, security, authentication, connectivity, broadband, consumer and networking industry. In his various leadership roles at Siemens, Infineon, Lantiq, and NXP as VP, GM and President he is known for driving new markets and providing simple solutions for daily life problems by reducing the friction in use of the technology. In his current role as VP of Business & Technology at Verifone, he is leading innovative solutions for payments and security. He is also a faculty member (adjunct) at Santa Clara University (SCU) and University of Santa Cruz (UCSC) focusing on mobile payments, e-commerce security and cryptocurrency. He holds an M.S. in computer engineering from University of Southern California (USC) and has completed Global Management Development from Babson college.



DAVID HARDING
CTO, ImageWare Systems

David Harding, an accomplished, international executive with more than 25 years of technology implementation and management experience, is responsible for strategic design, technology infrastructure and core strategy from concept through delivery. Before joining ImageWare, David held several CTO positions, with the most recent at IC Solutions, Inc., where he was responsible for all technology departments including the management of software development, IT and quality assurance as well as their respective hardware, software and human resource budgets. He has also held CTO and executive management positions at several technology companies such as Thirsty.com, Fulcrum Point Technologies, Inc., ProSoft, and Access360, which is now part of IBM/Tivoli.



AMY HILLE GLASSCOCK
Senior Policy Analyst, National
Association of State Chief
Information Officers (NASCIO)

Amy Hille Glasscock is a Senior Policy Analyst with the National Association of State Chief Information Officers. Her areas of focus include IoT, unmanned aerial systems and privacy. She previously worked as a Senior Government Relations Representative for the American Public Power Association and a Senior Legislative Assistant for Congressman Ben Chandler. She also served as an English Teacher in the Peace Corps in Indonesia from 2012-2014. She has a B.A from Berea College and an M.A from the University of Kentucky.



NATHANIEL GLEICHER
Head of Cybersecurity Strategy,
Illumio

Nathaniel Gleicher is trained as a computer scientist and a lawyer, and works at the intersection of technology, policy, and law. He has taught computer programming, designed and developed custom e-commerce and database solutions, built and secured computer networks, investigated and prosecuted domestic and international cybercrime at the Computer Crime section of the U.S. Department of Justice, and served as Director for Cybersecurity Policy at the National Security Council (NSC) in the White House. At the NSC, he developed U.S. government policy on key technology and cybersecurity challenges, including encryption, cyber deterrence, internet governance, and network security. He is currently the Head of Cybersecurity Strategy at Illumio, where he heads the company's thought leadership and public engagement and oversees its cybersecurity technology strategy.



JACK JANIA
SVP Strategic Alliances, Gemalto

Jack Jania is the SVP Strategic Alliances for the financial services group of Gemalto North America. He consults with and advises the financial industry on the best business strategies to employ mobile, smart card payments and data security solutions. In addition to supporting Gemalto's business and security objectives, Mr. Jania is committed to consumer education and advocacy through Gemalto's online resource www.JustAskGemalto.com, which provides answers to consumer questions about how to better enjoy the conveniences of the digital world. Previously, Mr. Jania worked in the mobile communication division, and was involved in the launch of smart cards supporting 3G wireless networks and NFC smart card technology. Mr. Jania has extensive component engineering, high speed microprocessor functional test and computer system level architecture design experience. Additionally he is the elected co-chairman of the Smart Card Alliance payments council.



DAMON KACHUR
Director OEM Sales and Business
Development, Giesecke & Devrient
America, Inc.

Mr. Kachur recently joined Giesecke & Devrient as Director of OEM Sales for Mobile Security. For the past 16 years, he has focused solely on cyber security with an emphasis on IoT PKI ecosystems and threat intelligence for mobile and fixed-line networks. Mr. Kachur spent the first part of his career with VeriSign and Symantec where he was responsible for over 1B IoT devices and 350M subscribers for parental control and threat intelligence services. He has spoken at a variety of conferences on PKI ecosystem security and is a regular panel participant at cyber security events worldwide. Mr. Kachur resides in Northern California, and is based out of G&D's office in San Jose, CA. He holds a B.S in Business Management and Administration from the Eberhardt School of Business at the University of the Pacific in Stockton, CA. In his spare time, Mr. Kachur enjoys spending time with his family, coaching little league baseball and racing vintage racecars.



GONDA LAMBERINK
UL

Gonda is an experienced business development and operations manager, and currently in UL's Software & Security division, focusing on different key industry verticals, incl. Finance, Automotive and Consumer Electronics, in North America. Gonda is responsible for strategy development, managing (in)organic growth opportunities, sales, and marketing activities. Gonda prior to joining UL worked as a strategy consultant with PwC Transaction Services in Amsterdam and as an economist with the Dutch Ministry of Economic Affairs. Gonda has an educational background in Economics and in Law.



OLIVER MANAHAN

Director, Business Development,
Infineon Technologies

Oliver Manahan is Director of Business Development for Infineon Technologies. Prior to his current role, Oliver was the Vice President of Emerging Payments with MasterCard. In this role, Mr. Manahan spent 10 years managing MasterCard's EMV chip, contactless and transit programs for North America. Before that, Mr. Manahan was with Visa for nearly a decade in the emerging products area. Mr. Manahan started his career in the Information Technology field, with companies such as Mercedes-Benz and Pepsi. Mr. Manahan is Infineon's representative on the Smart Card Alliance Board, co-chaired the Payments Council and co-chaired the Debit committee for the EMV Migration Forum.



JORDAN MCKEE

Senior Analyst, Payments, 451
Research

Jordan has spent the past several years conducting market research in the telecom, financial services and technology sectors with FM Global, OnProcess Technology, Yankee Group and currently, 451 Research. At 451 he leads the firm's payments coverage with a particular focus on emerging commerce technologies. Jordan is frequently engaged by the media to share his insights on the payments ecosystem and has been quoted in the Wall Street Journal, New York Times, Forbes, TIME, Businessweek and American Banker.



CATHY MEDICH

Director, Strategic Programs,
Smart Card Alliance

Cathy Medich is Director, Strategic Programs for the Smart Card Alliance. In this role, she manages strategic marketing

and industry initiatives and directs all industry council activities. Cathy has over 25 years of experience in marketing and strategic planning for technology businesses, specializing in payments and security. As an independent consultant, Cathy completed projects for Hewlett-Packard, NACHA, Securify, ViVOtech and VeriSign. Prior to her consulting practice, Cathy held positions as Vice President of Product Marketing for PaymentNet, Director of Marketing with VeriFone, and founding Executive Director of CommerceNet. Cathy has B.S. and M.S. degrees in Electrical Engineering and Computer Science from M.I.T. and an M.B.A. from the Wharton Graduate School.



C. MAXINE MOST

Principal, Acuity Market Intelligence

C. Maxine Most ("max") is the founder and Principal of Acuity Market Intelligence, the definitive authority on global biometrics market development. Throughout her 30-year career, Ms. Most has worked in markets ranging from biometrics, authentication, and identity solutions to e-commerce, interactive services, and 3D visualization. Since 2001, Most's has focused on biometric and eID markets where has earned a stellar reputation for innovative thought leadership and a proven ability to consistently provide accurate and reliable market intelligence. Ms. Most is the author of Acuity's latest research report "The Global Biometrics and Mobility Report: The Convergence of Commerce and Privacy." She is a UCSD graduate with a BA in Mathematics and Computer Science.



SAMI NASSAR

Vice President Cyber Security
Solutions at NXP semiconductors

Sami Nassar, industry-recognized digital security expert, speaker and technologist, is dedicated to driving data security and privacy standards and solutions across the semiconductor and digital security industries, including solutions for mobile payments, Internet of Things and connected cars. Sami

leads NXP's Cyber Security solutions group. His diverse background has taken him around the globe, from founding start-up companies in Silicon Valley to building and leading large international engineering and marketing teams with diverse cultural, functional and geographic backgrounds. Previous to joining NXP Semiconductors, Mr. Nassar held key executive positions, among them, General Manager of the Advanced Solution Group at Renesas, Managing Director of Strategic Marketing at Hitachi, and Managing Director at Schlumberger (now Gemalto).



GAVIN O'BRIEN
NIST NCCoE



JOHN O'MALLEY
Senior Vice President, IoT
Solutions, Giesecke & Devrient

A technical expert in wireless communications and security, John O'Malley has over 30 years of experience in the telecom industry. John lead the North America Telecom Division for G&D and is now Senior Vice President of IoT Solutions for G&D's North America Mobile Security Division. He is responsible for the expansion of G&D's product and solution offerings in the developing IoT and M2M market verticals. John's experience and expertise qualifies him as an important industry resource on the challenges and opportunities eSIM technologies bring to the market.



JON PAYNE
General Manager, US Operations,
Intercede

Jon is responsible for the management of Intercede's US office and has business development responsibilities for US state and local government and Latin America. He has over 20 years' experience in security, including at CSC, where he was a sub-

ject matter expert on immigration. Previously Jon worked at the UK Home Office in senior roles focused on immigration operations. He also served as the senior security officer at the British Embassy in Kabul, Afghanistan.



HERVÉ PIERRE
Chairman of the Board, SIMalliance

Hervé Pierre is Senior Director of Strategy within Gemalto's Embedded Software & Products team. Prior to this role he served as full-time General Secretary of SIMalliance from October 2006 until 2014, when he became Gemalto's representative on the association's Board of Directors.



BRIAN ROMANSKY
TrustPoint Innovation Inc

Brian Romansky has over 25 years' experience in security technology and innovation in payment systems, healthcare, and logistics. He is currently leading TrustPoint's team as a security technical expert for the US Department of Transportation SCMS V2X initiative, working to define the security standards and protocols that will be used. Prior to joining TrustPoint he was Director of Corporate Innovation at Pitney Bowes. Mr. Romansky holds Master of Science degrees in Electrical Engineering and R&D management from Rensselaer Polytechnic Institute and is an inventor on 25 patents.



DR. GIDEON SAMID
Chief Technology Officer (Prof.,
PhD, PE), BitMint, LLC

Prof. Gideon Samid, PhD, PE is teaching Computer Security and Cryptography at the University of Maryland, UC, and is a member of the department of electrical engineering and computer science at Case Western Reserve University. For over a

decade now he writes a computer security column with Digital Transactions Magazine, and his 2015 Elsevier book “Tethered Money — Managing Digital Money Transactions” received glowing accolades. Gideon serves as the Chief Technology Officer for BitMint — a legacy-friendly digital money company.



JEROME SCHANG
NXP Semiconductors



CRAIG SPIEZLE
Online Trust Alliance

Craig is the Executive Director and President of the Online Trust Alliance, a charitable non-profit with the mission to enhance online trust while promoting innovation and the importance of self-regulation. Craig is a recognized authority on trust and the convergence of privacy, security and marketing promoting responsible privacy practices, balanced public policy and data stewardship. Craig frequently briefs members of Congress and international policy makers driving awareness of best practices by both the public and private sectors and importance of internet governance. Prior to OTA, Craig spent over a decade at Microsoft driving development of brand protection, anti-spam, anti-phishing and privacy enabling technologies. Spiezle holds a Bachelor's of Science from the Rochester Institute of Technology, and a MBA from Seattle University. Craig is on the board of the Identity Theft Council, past member of the City of Clyde Hill Utility Commission and served on two terms on the Federal Communications Commission advisory councils pertaining to online security and reliability of critical infrastructure. Craig is a member of the International Association of Privacy Professionals and a member of InfraGard, a public-private partnership with the FBI.



STEVEN SPRAGUE
CEO, Rivetz Corp

Steven Sprague is the CEO of Rivetz Corp. and one of the principle industry evangelists for the application of trusted computing technology. Steven has a strong technical foundation in the principles, capabilities and business models of incorporating trusted hardware into everyday computing, and is skilled at translating these concepts into layman's terms.



SREE SWAMINATHAN
Director, Product Development,
First Data

Sree Swaminathan works as a Director of Digital Commerce Solutions at First Data. His responsibilities include new product development in Mobile, NFC, Tokenization and other innovative payment solutions. He has been with First Data since 2002 and instrumental in various TSM, mobile, contact and contactless smartcard initiatives at First Data. In his current role, he is focused on product development, consultancy and implementation of Credit, Debit and Prepaid digital commerce solutions for First Data regions around the world. Mr. Swaminathan brings a wealth of knowledge and experience from Payments, Telecom and Technology domains. He holds a Bachelor's degree in Engineering from NIT, India and an MBA degree in Technology Management. He serves as a steering committee member and Vice Chair in the Smart Card Alliance Mobile and NFC Council. He participates and contributes to various industry forums and activities and plays active role in payment innovations.



Certified Smart Card Industry Professional

The industry's only standardized certification program recognizing professionals with advanced smart card industry knowledge and experience

With the CSCIP credential, you are immediately recognized as having the most up-to-date knowledge of smart card technology. The designation distinguishes you as a certified professional with knowledge of both current smart card technology and applications and emerging trends.



**GET CERTIFIED
BUILD YOUR
CAREER**

The Smart Card Alliance offers three separate CSCIP credentials

CSCIP

The general CSCIP certification is for professionals who support all applications using smart card technology.

CSCIP/Government

The CSCIP/G certification focuses on identity and security applications and government-specific smart card initiatives.

CSCIP/Payments

The CSCIP/P certification focuses on payment applications including EMV chip, mobile, contactless and transportation.

All CSCIP certifications demonstrate proficiency in the following principles:

- Smart card technology fundamentals
- Security
- Application/data management
- Mobile and NFC usage models
- Identity and access control usage models (*CSCIP and CSCIP/G only*)
- Payments usage models (*CSCIP and CSCIP/P only*)



**Smart Card
Alliance**

To learn more about CSCIP certification, training dates, and fees, visit:

www.smartcardalliance.org/cscip

1-800-556-6828



ERIC RIDVAN ÜNER
CTO and Chief Scientist, Redwall Technologies

Eric Uner has nearly 20 years of experience in both offensive and defense cyber and information security. His research into applying biological defense models to computer systems and chaos theory led to the patented algorithms described as “a paradigm shift” in technology in a Department of Defense report. He has now turned that experience to a new patented technology to defend mobile and IoT devices as a co-founder of Redwall Technologies, where he serves as CTO. He is a sought-after expert in his field, and has been profiled in publications such as Electronic Engineering Times.



JASPER VAN WOUDEBERG
CTO North America, Riscure

Jasper currently is CTO for Riscure North America. As CTO of Riscure North America, Jasper is principal security analyst and ultimately responsible for Riscure’s North American technical activities. At Riscure, Jasper’s expertise has grown to include various aspects of hardware security; from design review and logical testing, to side channel analysis and perturbation attacks. He leads Riscure North America’s pentesting teams and has a special interest in combining AI with security research.



RANDY VANDERHOOF
Executive Director,
Smart Card Alliance

Randy Vanderhoof is the Executive Director of the Smart Card Alliance. The Smart Card Alliance is a not-for-profit, multi-industry association of over 200 member firms working to accelerate the widespread acceptance of smart card technology in North America and Latin America. He came to the Alliance in January, 2002 and became the Executive Director in August, 2002. During his tenure as the chief executive, he has directed the transformation of the organization from primarily a net-

working organization into a diverse, education oriented, international, multi-industry organization that gathers industry stakeholders together to help stimulate the rapid adoption of all forms of smart cards (cards and other form factors) for electronic payments and digital security applications. In December 2008, Randy was named by Security Magazine to the list of the Top 25 Most Influential People in the Security Industry.



NICHOLAS VONDRAK
North American Marketing
Manager, Safran Identity & Security

Nicholas started his career as an Officer in the U.S. Navy before leaving active service to return to school and enter the corporate world. He spent 5 years at AT&T where he held various marketing and operations roles in Mobility, Labs and Network Operations. Before joining Safran, he was a member of the Soft Card team focused on NFC applications. Nicholas holds a Bachelor of Science in Mechanical Engineering from Colorado State University, a Masters in Business Administration from the University of Washington and is a graduate of AT&T’s Leadership Development Program. He is still active in the U.S. Navy Reserves where he holds the rank of Lieutenant Commander. He and his wife, Jessica, reside in Boulder, Colorado.



DR. CHRISTOPHER WILLIAMS
Associate, Technology
Development, Exponent, Inc.

Dr. Williams specializes in the implementation and evaluation of information assurance technology and data collection techniques. He has applied his expertise to validate standards compliance in secure messaging protocols between a smart card and host; and to study the integration of commercial cryptographic solutions into a government approved authentication infrastructure for mobile platforms. Dr. Williams is interested in the integration of commercial cryptography solutions, embedded secure hardware, and authentication infrastructure for security and privacy in fintech, internet of things, communication, and transportation.

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