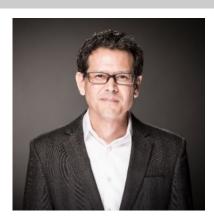# Ed Horley, Chief Executive Officer of HexaBuild, Inc.

Celebrating the Sixth Year Anniversary of World IPv6 Launch

Ed is the Co-Chair of the California IPv6 Task Force, holding that position since 2010. He is an international speaker on IPv6 and is actively involved in the advocacy of IPv6 through his work on the CAv6TF and the North American IPv6 Task Force. He has an extensive background in networking and technology, with over 20 years of experience in designing, deploying and supporting data center and enterprise networks.

1-1: Session Description and More about Ed Horley: Ed is the author of the Apress book Practical IPv6 for Windows Administrators and is a Pluralsight author for two courses, both on IPv6. He was also the technical reviewer or editor for the following titles: Understanding IPv6, Third Edition from Microsoft Press, IPv6 Essentials Third Edition from O'Reilly Media and IPv6 Address Planning from O'Reilly Media. Ed previously worked for IT solutions provider Groupware Technology for seven years, where for the last two years he held the position of VP of Engineering. During his tenure at Groupware, he was instrumental in the development of Groupware's Cloud Practice as well as the overall growth of its engineering structure and talent.

About Hexabuild: HexaBuild is an IT professional services consultancy comprised of industry-recognized IT subject matter experts and thought leaders. Our core team has a combined 60+ years of experience, multiple expert-level vendor certifications, and several publications by recognized technology presses. HexaBuild specializes in managing IPv6 adoption initiatives and large-scale cloud deployments for both enterprises and service providers. Services include address planning, hardware and software assessments, network/IT environment audits, on-prem to cloud migration and integration, and personnel training.

10:00 AM - Mission statement from Career and Education	Director of Education & Career Development Jing Zhang-Lee Introduces Carolyn Shek

San Francisco, Office of Economic & Workforce Development, on the TechSF

Carolyn Shek works for the City & County of San Francisco, Office of Economic & Workforce Development, on the TechSF team which provides a range of services, opportunities, training programs for diverse young adults seeking careers and apprenticeship in the technology industry.

The City of San Francisco, Office of Economic & Workforce Development partnered with the City College of San Francisco; The Information Security Apprenticeship Program. This is a registered apprenticeship that follows the guidelines established by the California Apprenticeship Council. Students start with completing a set of prerequisite courses on Information Security at CCSF, (Domain Name Systems, and Introduction to Networks, Network Security and Computer Forensics). Then they are matched with an employer for their apprenticeship, which they will concurrently continue their courses towards the CCSF Certification in Cyber Security. At the successful completion of the program, apprentices are qualified to test for the CISSP Associate Certification!
Employers are able to customize their training program to meet their skills needs, human resources strategies and company culture.
TechSF is currently recruiting Employers who are interested in hiring our apprenticeship to start at their company as apprentices.
This is a great program for companies to make a difference in developing a student's first step into their new career, at the same time, growing your company's workforce with diverse talents.

Session 1.2: 10:15-11:00	Meet [Tyler Haske](#) Certification Test Engineer, Cisco

Addressing and Zero Touch Provisioning

Tyler Haske, US Government/ReadyLogo IPv6 Certification Test Engineer at [Cisco](#)

Tyler is responsible for helping all of Cisco's products achieve two IPv6 certifications: USGv6 and IPv6 ReadyLogo. USGv6 is a profile or a collection of purchasing requirements the US government wants to see for IPv6 readiness. Many US government departments require this certification to buy equipment. Indirectly my department protects millions of dollars' worth of public sector deals.

1-2 Session Description: Addressing and Zero touch provision is about…

More about Tyler: IPv6 ReadyLogo is the industry standard certification. It ensures equipment does basic things like responding to pings, address itself automatically with SLAAC, and do neighbor discovery correctly. IPv6 has some different design paradigms so it's important to check correctness. The certification suite is about 400+ tests.

Tyler will share his experience managing the IPv6 testing infrastructure, in automating tests, and the substantially important steps of pushing IPv6 readiness within Cisco as a company.

Cisco (NASDAQ: CSCO) enables people to make powerful connections-whether in business, education, philanthropy, or creativity. Cisco hardware, software, and service offerings are used to create the Internet solutions that make networks possible-providing easy access to information anywhere, at any time. Cisco was founded in 1984 by a small group of computer scientists from Stanford University. Since the company's inception, Cisco engineers have been leaders in the development of Internet Protocol (IP)-based networking technologies. Today, with more than 71,000 employees worldwide, this tradition of innovation continues with industry-leading products and solutions in the company's core development areas of routing and switching, as well as in advanced technologies such as home networking, IP telephony, optical networking, security, storage area networking, and wireless technology. In addition to its products, Cisco provides a broad range of service offerings, including technical support and advanced services. Cisco sells its products and services, both directly through its own sales force as well as through its channel partners, to large enterprises, commercial businesses, service providers, and consumers.

Privileged Account Risks and Where to Find Them – Part 2: What are the roles on IOT devices?

Benjamin Derr is a Principal Solutions Engineer with CyberArk, and over the last three years, has worked with Fortune 500 organizations and government agencies to help them develop long-term cybersecurity strategies built on privileged account security best practices. He has worked for CyberArk for over 3 years, and brings deep technical and business experience to his role, with a focus on areas such as regulatory compliance, policy management, access management, and proactive risk mitigation techniques. Prior to CyberArk, Ben has worked in a variety of roles, and has been in the industry for over 20 years.

1-3 Session Description: Accelerate Results: Privileged Account Risks and Where to Find Them – Part 2: What are the roles on IOT devices?

Where it's imperative to maintain speed and agility without compromising secrets used by privileged admin users, CI/CD tools, homegrown applications, and infrastructure – protect the pipeline and integrity of resulting products. This session will discuss:

- What is the role of Privilege in IoT?
- We're no longer talking about phones and tablets,
- We're talking networked devices like Printers,
- Network Video Recorders,
- Healthcare systems, and many others.
- Maintaining compliance and reducing risk in this new Cloud and automation frontier is the challenge of the day

CYBERARK®

11:50 to 12:20 Luncheon, followed by Presentation – 12:30

Is Cyber Risk in the Nature of IoT?

Jun Du, Head of Security Research and Analytics at ZingBox Inc. Jun has dedicated the last 16 years to creating software that enables network infrastructure and cybersecurity. He is currently the Head of Security Research and Analytics at Zingbox where he leads a team of data scientists and security researchers leveraging AI and machine learning to develop IoT security solutions. Prior to Zingbox, Jun held various engineering and management roles in the networking and security solution providers such as Ericsson,

Airspace, and Cisco Systems. Jun led teams that created new generations of network security software leveraging behavioral analytics to detect network breaches. He also helped develop the technology and build the engineering team focused on enterprise wireless during his 8 years at Cisco, when his team helped built all wireless controller models and mobility solutions. Jun is co-holder of multiple patents and has MS degrees from NC State and Beijing University of Telecom.

1-4: Is Cyber Risk in the Nature of IoT? IPv6 enables IoT but cyber risk is in their nature. Connected devices open endless possibilities for people, including those with malicious intent. This session will use connected medical devices, or IoMT, as examples to illustrate the hard facts about the cyber risks IoT bring to the industry, and more importantly, how to play defense by leveraging an AI-powered risk model combined with real-time detection, service integration, big data, and threat intelligence. Recent advancements in Artificial Intelligence (AI) and Deep Learning are revolutionizing the way enterprises operate, including the way healthcare providers offer care. The same technologies are also leading the way to ensure the provider's ability to protect their devices from ransomware and data breach and ensure uninterrupted service. In this talk, Mr. Jun Du will explore the challenges in IoT security and solutions that are being applied to healthcare industry today.

About Zingbox: Zingbox detects and protects the connected equipment. It provides unparalleled visibility into the Internet of Things (IoT) infrastructure to reveal existing vulnerabilities and hidden threats. Zingbox is a real-time IoT security solution that protects enterprises from cyber and insider threats. Deployed in a non-intrusive way, Zingbox discovers, identifies and classifies assets into IoT categories. It then learns and generates a baseline of normal device behavior and identifies its risk profile. Zingbox detects anomalous behavior to provide real-time policy enforcement. Founded by industry veterans with deep expertise in networking and security, Zingbox is backed by leaders in enterprise security. http://www.zingbox.com

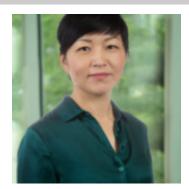# Smart Industry – Dumb Industry: Sensors in the Field

Speaker **Jane Ren, Founder, and CEO of Atomiton,** a leader in IoT delivering next-generation intelligent solutions to industrial businesses.

Under Jane's leadership, Atomiton was named a "Top 20 Disruptive Influence in Tech" by the CFO Magazine in 2017 for its IoT software stack deployed in oil and gas, smart cities, and industrial automation.

Prior to Atomiton Jane was the Chief Business Architect at GE Global Software Center, where she spearheaded digital business transformations across GE's Healthcare, Transportation, Aviation and Energy businesses. Jane product managed the core software platform to drive GE's "Industrial Internet" initiative. Previously at Cisco, Jane was responsible for GTM strategies and major customer engagements for the Service Exchange Platform. A medical doctor by training, Jane worked as an internal medicine physician and then a hospital executive before joining the tech industry.

Jane received her MBA from the University of California, Berkeley, and her MD from Peking Union Medical College (now Tsinghua University).

1- 5: Sensors In The Field: Energy, Retail, & Logistics - share a need to move sensors into the field: When is the right time for security to get involved? As IOT plays an increasing role in the Industrial Space we witness:

- New data sources, New systems, New connections the likes of which were not there before
- We need to understand what people are touching and Why they need to do that
- We must anticipate what will be a fad and what's going to stick as a critical feature to the business ROI
- How will security be proactive? What do we see as the typical IOT process?
- What may or may not be the right process? When should security be involved in the process (hint... now)

Atomiton is a global leader in industrial IoT, providing a digital platform for industrial solutions in Oil & Gas, Energy, Smart Cities, Manufacturing and Engineering Services. Digital solutions that deliver relevant real-time business insights, optimize operations and automate actions are created with Atomiton software.

Atomiton

Session 1.6: 2:15-3:00	Tabletop Exercises Session 1.6: 2:15-3:00

Tabletop lab structure allows groups of five or more participants in a guided activity designed to foster the real-world application of core ISC2 education domain topics. Exhibitors and Chapter Members must examine impacts from IPv6 and IOT and the rest is up to you and your mentor. Table leaders include representation from:

- Attivo Networks: Deceive - Detect - Defend, the tabletop host, Jonathan Randall, along with Conference Committee co-chairs Maura Jones and R. Daniel Lee
- CyberArk: Role Based Privileged Access Management - Benjamin Derr, Cory Brown and Brian Kennedy
- Netskope & 6 Connect: New infrastructure Dependencies, Sean Codero and Pete Scalfini
- Zingbox: Cyber Risk in IOT
- Additional table leaders across the room are waiting to facilitate the team session.

Please feel free to also use this time to meet with Hiring Managers and Recruiters - KForce, Robert Half, Vivo Inc. and our special guest Carolyn Shek.

Have you adjusted your current BCP to account for new challenges in IOT? Each table has one hour and one facilitator. Your mission is to design one tabletop exercise involving at least one topic from the day. Your effort earns 1 CPE. You can also use this time to meet with hiring advisors. All of the companies below are sponsors and attendants. If you want to meet with people directly, please contact the conference director who will arrange your one on one time.

IPv6 TLDR: Everything you didn't want to know or hear about IPv6 and the changing IPv4 landscape- in less than 12 Parsecs

Sean Cordero, VP of Cloud Strategy at Netskope

Pete Sclafani, COO & Co-Founder of 6Connect

1-7 &1-8: Session Description: Everything you didn't want to know or hear about IPv6 and the changing IPv4 landscape- in less than 12 Parsecs:

The continued and increased rate of IPv6 adoption on a global scale marches on. Internet and Cloud service providers have continued to limit the usage of IPv4 due to cost, performance, and interoperability reasons. Now, the industry-wide shift has started to impact how our users and systems communicate with Internet-based services and placed new security considerations due to this new paradigm.

Join industry leaders Pete Sclafani, COO, and co-founder of 6connect, and Sean Cordero, VP of Cloud Strategy at Netskope to hear from them on the impacts IPv6 adoption is having across the industry, the pitfalls to avoid as an organization begins adoption, and the impact to securing Cloud and on premise based technologies. Attendees will walk away with real-world examples and actionable steps to empower their understanding and engagement in their organization's IPv6 efforts and begin

- The worldwide and industry shifts driving IPv6 adoption
- Understand the information risk implications of not controlling engaging in the efforts to drive IPv6 adoption.
- Preparing your organization for the operational and technical changes IPv6 introduces to your team.
- Avoidable mistakes which can lead to long-term, negative, business impacts

Netskope is the leader in cloud security. Using patented technology, Netskope ís cloud-scale security platform provides context-aware governance of all cloud usage in the enterprise in real time, whether accessed from the corporate network, remote, or from a mobile device. This means that security professionals can understand risky activities, protect sensitive data, stop online threats, and respond to incidents in a way that fits how people work today. With granular security policies, the most advanced cloud DLP, and unmatched breadth of workflows, Netskope is trusted by the largest companies in the world. - 6connect is the leader in network resource provisioning and automation.

6connect's unique Dynamic Network Provisioning (DNP) platform enables centralized provisioning of physical and virtual devices across distributed and mobile networks, cloud platforms, web-hosting platforms, and data centers. Innovative customers like Dell, PCCW, Swisscom, Terremark, iLand Cloud Infrastructure, and CyrusOne utilize DNP to accelerate service delivery time, accurately provision complex network protocols, and dramatically reduce network complexity and costs, while achieving industry change management and compliance requirements. 6connect is based in Silicon Valley and employs an engineering team that includes some of the world's foremost experts in IPv4/IPv6 technology, network architecture design, and systems automation.