IOT EDGE PLAYBOOK *Allegro*

RSAC 2020 and the IoT Edge

With 500+ sessions and 30 Keynotes to possibly attend during the show, it is important to be strategic with your time to get the most from RSAC 2020. Allegro can help – we have put together our Annual IOT EDGE PLAYBOOK for RSAC 2020 highlighting specific sessions and keynotes that are directly applicable to security issues for IoT edge devices.

When you have a chance – Stop by our booth #4610 and let's talk security. We look forward to seeing you on the IOT EDGE!

allegrosoft.com/rsac2020

SUMMARY

Monday

Emerging Threats
Monday, February 24
8:30AM - 5:00PM
Moscone West

Tuesday

Shodan 2.0: The World's Most Dangerous Search Engine Goes on the Defensive
Tuesday, February 25
11:00AM - 11:50AM
Moscone West

Using the Hacker Persona to Build Your DevSecOps Pipeline
Tuesday, February 25
11:00AM - 11:50AM
Moscone West

Bringing Down the Empire—The Internet of Medical Things (IoMT)
Tuesday, February 25
1:00PM - 1:50PM
Moscone South

Market Trends in DNS Privacy Doh and DoT
Tuesday, February 25
1:40PM - 2:00PM
Moscone South

Security Starts Here ... Identity
Tuesday, February 25
2:10PM - 2:30PM
Moscone South

CyBEER Ops
Tuesday, February 25
4:00PM - 6:00PM

Wednesday

Practical Use of MUD Specification to Support Access Control in the IoT
Wednesday, February 26
8:00AM - 8:30AM
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Creating a Minimum Security Baseline & Aligned Standards for Consumer IoT
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Building a Comprehensive IoT Security Testing Methodology
Wednesday, February 26
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Product Security Meets Human Life: Inoculating Medical Devices
Wednesday, February 26
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Stopping the Proliferation of IoT Botnets: Is Dynamic Analysis the Answer?
Wednesday, February 26
1:30PM - 2:20PM
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HTTPS: Why Privacy Doesn't Equal Security
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What's in the Box? Software Bill of Materials for IoT
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Next-Gen IoT Botnets 3: Bad Implementations of Good Cloud Platforms
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Have You Secured Your Un-agentable Things?
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2:40PM - 3:00PM
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Industry Standards to Support Supply Chain Risk Management for Firmware
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You, Me and FIPS 140-3: A Guide to the New Standard and Transition
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Top 10 List for Securing Your IT/OT Environment
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IoT Bug Hunting: From Shells to Responsible Disclosure
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Evolution of AIOps to Watch over Smart City IoT
Thursday, February 27
11:20AM - 11:50AM
Moscone South

Automotive/IoT Network Exploits: From Static Analysis to Reliable Exploits
Thursday, February 27
1:30PM - 2:20PM
Moscone West

IOT EDGE PLAYBOOK *Allegro*

Emerging Threats

Monday, February 24
8:30AM - 5:00PM
Moscone West

Participants

Deborah Blyth
CISO, State of Colorado

Chris Cochran
Threat Intelligence Lead, Netflix

Joel DeCapua
Special Agent, FBI

Jon DiMaggio
Sr. Threat Intelligence Analyst, Symantec

Michael Ekstrom
Lead Cybersecurity Engineer, National Cybersecurity Center of Excellence

Timothy Gallo
Solutions Architect, Service and Intelligence, FireEye

William Hall
Senior Counsel, US Department of Justice, Computer Crime and Intellectual Property Section

Amanda House
Data Scientist, McAfee

Daniel Kapellmann Zafra
Technical Analysis Manager, Cyber Physical, FireEye

Jin Wook Kim
CERT Manager, WINS

Sherin Mathews
Senior Data Scientist, McAfee

Anthony Nash
Director of Cyber Intelligence Strategy Anomali

Dick O'Brien
Principal Editor, Symantec

Nicole Perlroth
Investigative Journalist, NY Times

Lieutenant Gustavo Rodriguez
Lieutenant, FBI NY Cyber Task Force, NYPD

David Sancho
Senior Threat Researcher, Trend Micro

Anne Townsend
Principal Cybersecurity Engineer, National Cybersecurity Center of Excellence

William Wade
Chief Information Security Officer, City of Atlanta

Wendi Whitmore
Global Lead, X-Force Incident Response, IBM

Related RSA Articles

- Security Investigative Journalists Speak Out (Nicol Perlroth)
- RSAC TV: CBSi Interview with Wendi Whitmore
- I Find Your Lack of Security Strategy Disturbing (Deborah Blyth)

Related Internet Articles

- Show 138: Nicole Perlroth Discusses Life as a Cyber Security Journalist
- Task Force Takes 'Whole Government' Approach (Gustavo Rodriguez)
- Ransomware (Wendi Whitmore)
- Make Your Own Luck: Key Strategies for Building Your Career (Wendi Whitmore)
- A short history of cyber espionage (Dick O'Brien)
- Working in Cyber Security: "Work for the role you want to be in and not the role you are in today" (Jon DiMaggio)
- Examining the Thriving Underground Software Business (David Sancho)
- Colorado builds internal firewalls to amp up cybersecurity (Deborah Blyth)
- ICS Tactical Security Trends: Analysis of the Most Frequent Security Risks Observed in the Field (Daniel Kapellmann Zafra)
- Fantastic information and where to find it: a guidebook to open-source OT reconnaissance (Daniel Kapellmann Zafra)
- Meet The Former Marine Who Went Viral Joining Netflix as Threat Intelligence Lead (Chris Cochran)
- Ransomware: Defending Against Digital Extortion (Timothy Gallo)

Event Link

https://www.rsaconference.com/usa/agenda/emerging-threats

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IOT EDGE PLAYBOOK Allegro

Welcome Session

Monday, February 24
5:00PM - 7:00PM
Show Floor - Booth #4610

Participants

We invite everyone to kick-off RSAC 2020 with drinks and hors d'oeuvres as you preview solutions from leading information security organizations and IoT vendors in the Expo.

We especially invite everyone to stop by the Allegro Booth #4610 to learn more about securing the IoT edge.

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Shodan 2.0: The World's Most Dangerous Search Engine Goes on the Defensive

Tuesday, February 25
11:00AM - 11:50AM
Moscone West

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Participants

Dr. Michael Mylrea
Senior Technical Advisor for Cybersecurity
Pacific Northwest National Laboratory

Related Internet Articles

- Michael Mylrea's research while affiliated with Pacific Northwest National Laboratory and other places
- Buildings Cybersecurity: Opportunities, Challenges and Solutions
- Blockchain Unchained: Cybersecurity Implications & Market Overview

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Using the Hacker Persona to Build Your DevSecOps Pipeline

Tuesday, February 25
11:00AM – 11:50AM
Moscone West

Participants

Dr. Aaron Estes
Lockheed Martin Fellow
Lockheed Martin Corporation
Robin Yeman
Lockheed Martin Fellow
Lockheed Martin

Related Internet Articles

- Speed of Delivery using Agile for Hardware – Robin Yeman
- DoD Science Board Report – Robin Yeman
- How large government contractors are utilizing Agile and DevOps – Suzette Johnson and Robin Yeman

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Bringing Down the Empire—The Internet of Medical Things (IoMT)

Tuesday, February 25
1:00PM - 1:50PM
Moscone West

Participants

Axelle Apvrille
Principal Security Researcher
Fortinet

Aamir Lakhani
Senor Red Team Researcher
Fortinet

Related Internet Articles

Axelle Apvrille

- Reversing Internet of Things from Mobile Applications
- Cryptocurrency mobile malware
- Ph0wn smart devices CTF: Behind the Scenes
- Medical IoT for diabetes and cybercrime

Aamir Lakhani

- Threat Landscape Trends - TheCube
- Cybersecurity Threat Landscape
- Code Wars
- Understanding Cryptocurrencies, Bitcoins, and Blockchains LiveLessons
- Investigating the Cyber Breach: The Digital Forensics Guide for the Network Engineer
- Digital Forensics and Cyber Crime with Kali Linux Fundamentals LiveLessons

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Market Trends in DNS Privacy DoH and DoT

Tuesday, February 25
1:40PM - 2:00PM
Moscone South
(Infoblox)

Topic

Two evolving improvements to DNS privacy have recently made the news: DNS over HTTPS or "DoH" and DNS over TLS (Transport Layer Security) or "DoT." We want to educate you on what these changes to DNS are, why they are coming about, and our recommendations on what companies should do to act now, as both mechanisms change how DNS operates, and they create difficulties for security administrators by circumventing established DNS security controls. Interesting to see how this might effect IoT devices at the edge of a network.

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Security Starts Here … Identity

**Tuesday, February 25
2:10PM - 2:30PM
Moscone South
(One Identity)**

Topic

Often missed in the bright lights of innovation, digital transformation and a move to the cloud is the immutable reality that security can't be ignored. This session highlights the benefits of simple identity practices and integrated solutions. You will walk away with an understanding of how to secure your organization and establish a rock-solid foundation of identity governance and administration, and privileged access management.

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CyBEER Ops

Tuesday, February 25
4:30PM - 6:00PM

Participants

We invited everyone to the Expo floor to sample CyBEERs from around the globe.

Don't forget to stop by the Allegro Booth #4610 to discuss the latest in IoT edge device security.

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Practical Use of the MUD Specification to Support Access Control in the IoT

**Wednesday, February 26
8:00AM – 8:30AM
Moscone South**

Participants

Dr. Parisa Grayeli
Manager, NCCoE MUD Laboratory
Mitre/NCCoE

Blaine Mulugeta
Cyber Security Engineer
Mitre/NCCoE

Related Internet Articles

Blaine Mulugeta

- Won't Get Fooled Again: The expected future of IoT malware and what to do about it.
- Multifactor Authentication for E-Commerce

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Creating a Minimum Security Baseline and Aligned Standards for Consumer IoT

Wednesday, February 26
8:00AM - 8:50AM
Moscone West

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Participants

Jasper Pandza
Standards Development Lead for Consumer IoT Security
UK Department for Digital, Culture, Media and Sport (DCMS)

Related Internet Articles

- ETSI standard on consumer IoT security: key steps to secure 'smart' products
- Improving the Security of Consumer IoT: A New Code of Practice
- Plutonium and China's Future Nuclear Fuel Cycle

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Allegro

Building a Comprehensive IoT Security Testing Methodology

Wednesday, February 26
9:20AM - 10:10AM
Moscone West

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Participants

Deral Heiland
Research Lead, IoT
Rapid7

Related Internet Articles

- Rapid7 Blog
- DerbyCon 2018, Deral Heiland's 'Hardware Slashing, Smashing And Reconstructing For Root Access'
- Deral Heiland, Seamless Podcast with Darin Andersen
- Deral Heiland & Abyss of Cybersecurity - John Bumgarner
- How a security researcher is tackling IoT security testing

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Product Security Meets Human Life: Inoculating Medical Devices

Wednesday, February 26
10:00AM - 10:30AM
Moscone South

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Participants

Sara Bohan
Senior Information Security Analyst
Mayo Clinic

Adam Brand
Managing Director
PwC

Tara Larson
Chief Security Architect-Product Security Director
Abbott

Scott Nichols
Director, Global Product Privacy and Cybersecurity
Danaher/Beckman-Coulter

Related RSA Article

Adam Brand

- Medical Device Security: Getting Executive Buy-In

Related Internet Articles

Adam Brand

- Why medical device security is something we should all care about
- Putting medical device security to the test reveals many vulnerabilities
- Medical Devices: Pwnage and Honeypots
- BlueKeep: The latest reminder of our responsibility with connected medical devices
- Medical device security: patient safety and cost considerations

Tara Larson

- Medical Device Cybersecurity Risk Mitigation
- Responding to Challenges in Medical Device Security?

Stopping the Proliferation of IoT Botnets: Is Dynamic Analysis the Answer?

**Wednesday, February 26
1:30PM – 2:20PM
Moscone South**

Participants

Mounir Hahad
Head of Juniper Threat Labs
Juniper Networks

Khurram Islah
Sr. Staff Engineer
Juniper Networks

Related Internet Articles

Mounir Hahad

- New 'unknown' data breach shows the danger of multicloud
- Equifax, USMC breaches call for more monitoring and credit freezes
- Ransomware-as-a-Service: Hackers' Big Business
- RSA2018 With Dr. Mounir Hahad, Ph. D,, Head of Juniper Threat Labs

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HTTPS: Why Privacy Doesn't Equal Security

**Wednesday, February 26
1:30PM – 2:20PM
Moscone South**

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Participants

David Dufour
Vice President of Cybersecurity and Engineering
Carbonite, an OpenText Company

Hal Lonas
Senior Vice President and CTO, SMB and Consumer
OpenText

Related Internet Articles

David Dufour

- Cyber Security with David Dufour
- Post RSA 2018 Interview with Webroot's David Dufour
- Interview: David Dufour, Senior Director of Cybersecurity & Engineering, Webroot

Hal Lonas

- Cybersecurity: An Asymmetrical Game of War
- Hal Lonas on how enterprises are using machine learning for security
- HTTPS: Security vs Privacy | Webroot
- Cybersecurity Sit Down: The Future of Cybersecurity for SMBs | Webroot

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What's in the Box? Software Bill of Materials for IoT

Wednesday, February 26
1:40PM - 2:10PM
Moscone South

Participants

Dr. Allan Friedman
Director of Cybersecurity
NTIA / US Department of Commerce

Related RSA Article

- Revisiting Public-Private Collaboration: Asian and Global Perspectives

Related Internet Articles

- Redefining Cybersecurity
- Cyber Safety and Resiliency at the Internet Infrastructure Layer
- Analysis: Changes in US spy programme
- Creating Economic Incentives for Cybersecurity
- Cybersecurity expert on NSA spying and Obama's policy reform
- Transparency of SW and IoT Components: An Open Approach to Bill of Materials
- Software Bill of Materials (SBOM)
- Cybersecurity researcher Allan Friedman said he is skeptical of Edward Snowden's claim...

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Next-Gen IoT Botnets 3: Bad Implementations of Good Cloud Platforms

Wednesday, February 26
2:20PM - 2:50PM
Moscone South

Participants

Alex Jay Balan
Chief Security Researcher
Bitdefender

Related RSA Article

- Legal Implications in Ethical Disclosure

Related Internet Articles

- Exploiting Cloud Synchronization to Hack IOTS
- Privacy: Between Hype and Need
- Next gen IoT Botnets 3 moar ownage
- Short bio

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Have You Secured Your Un-agentable Things?

Wednesday, February 26
2:40PM - 3:00PM
Moscone South
(Armis)

Topic

SCADA and OT devices. Blood infusion pumps and ventilators. Smart TVs, badge readers, and access points. These are a few un-agentable things—and hackers know it. These devices are the new threat landscape. They have no security, they can't be updated easily, and they can't host agents. So how can you stay protected? Join Armis and learn about real-life exploits and how to secure these devices.

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IOT EDGE PLAYBOOK

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Industry Standards to Support Supply Chain Risk Management for Firmware

**Thursday, February 27
8:00AM - 8:30AM
Moscone South**

Participants

Lawrence Reinert
Computer Systems Researcher
National Security Agency

Monty Wiseman
Principal Engineer, Cybersecurity
GE Research

Related Internet Articles

Monty Wiseman

- Trusted Supply Chain and Remote Provisioning with the Trusted Platform Module
- A Canonical Event Log Structure for IMA

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Putting Access Management for the Internet of Things into Practice with MUD

Thursday, February 27
8:00AM - 8:50AM
Moscone West

Participants

L. Jean Camp
Professor
Indiana University

Drew Cohen
Chief Executive Officer
MasterPeace Solutions Ltd

Eliot Lear
Principal Engineer
Cisco - Enterprise Chief Technology Office

Mudumbai Ranganathan
Computer Engineer
National Institute of Standards and Technology

Darshak Thakore
Principal Architect
CableLabs

Related Internet Articles

Drew Cohen
- The Technado, Episode 101: MasterPeace Solutions' Drew Cohen
- Masterpeace Solutions President and CEO Drew Cohen: Full Interview
- MasterPeace CEO Drew Cohen Technado Podcast Interview

Eliot Lear
- Roles and RFCs
- It's Not the Doorbell, It's the Cloud
- Cited articles

Mudumbai Ranganathan
- Publications

Darshak Thakore
- Micronets: Enterprise-Level Security Is No Longer Just For Enterprises
- CableLabs® Micronets: A New Approach to Securing Home Networks

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You, Me and FIPS 140-3: A Guide to the New Standard and Transition

**Thursday, February 27
8:00AM - 8:50AM
Moscone West**

Participants

Ryan Thomas
CST Laboratory Manager
Acumen Security

Related RSA Article

- Quick Look: You, Me and FIPS 140-3: A Guide to the New Standard and Transition

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MITRE ATT&CK: The Sequel

Thursday, February 27
9:20AM - 10:10AM
Moscone West

Participants

Freddy Dezeure
CEO
Freddy Dezeure BVBA

Richard Struse
Chief Strategist, Cyber Threat Intelligence
MITRE Engenuity

Related RSA Articles

Freddy Dezeure

- RSAC TV: Interview with Freddy Dezeure
- Assessing the EU Threat Landscape
- Frameworks, Mappings and Metrics: Optimize Your Time as CISO or Auditor

Related Internet Articles

Freddy Dezeure

- Testimonial CERT-EU
- Threat Model ATT&CK

Richard Struse

- Threat-Informed Defense and MITRE ATT&CK™
- Interview with Richard Struse
- MITRE's new 'ATT&CK' resource an encyclopedia of cyber threats

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Top 10 List for Securing Your IT/OT Environment

Thursday, February 27
9:20AM - 10:10AM
Moscone West

Participants

Dawn Cappelli
VP Global Security and Chief Information Security Officer
Rockwell Automation

Roy Gundy
Head of OT Cyber Security
Johnson & Johnson

Related RSA Articles

Dawn Cappelli
- Getting to Know the New RSAC Advisory Board Members: Dawn Cappelli

Roy Gundy
- Security Coming Together: The Convergence of IT and OT

Related Internet Articles

Dawn Cappelli
- Insider Threat: Putting Theory Into Practice
- Practical Advice for Submitting to Speak at a Cybersecurity Conference
- IT OT Cybersecurity Convergence Panel Discussion – ARC Industry Forum 2019 Orlando

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IoT Bug Hunting: From Shells to Responsible Disclosure

**Thursday, February 27
10:00AM - 10:30AM
Moscone South**

Participants

Shaun Mirani
Security Analyst
Independent Security Evaluators

Ian Sindermann
Associate Security Analyst 2
Independent Security Evaluators

Related Internet Articles

Shaun Mirani

- Remotely Exploiting IoT Pet Feeders
- ASUS Routers Overflow with Vulnerabilities
- Show Mi The Vulns: Exploiting Command Injection in Mi Router 3
- Hack Routers, Get Toys: Exploiting the Mi Router 3
- Over a Dozen Vulnerabilities Discovered in ASUSTOR AS-602T
- VPNFilter Threat — How to Prevent, Detect and Mitigate
- Unauthenticated Remote Code Execution in Asustor AS-602T (CVE-2018-12313)

Ian Sindermann

- Hardware Hacking 101 — Lesson 1: Beauty, Your Home Lab and Basic Electronics
- Hardware Hacking 101 — Lesson 2: Classical Hardware Hacking
- Hardware Hacking 101 — Lesson 3: Abusing UART (U Are RooT)
- PART 1: DEF CON Badgelife Hardware Hacking - Introduction In-Circuit Serial Programming (ICSP)

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Evolution of AIOps to Watch over Smart City IoT

Thursday, February 27
11:20AM – 11:50AM
Moscone South

Participants

Darren Bennett
Deputy Director, Chief Information Security Officer
City of San Diego

Thomas Caldwell
CTO
Techniche

Related Internet Article

Darren Bennett

- Bio

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IOT EDGE PLAYBOOK — Allegro

Automotive/ IoT Network Exploits: From Static Analysis to Reliable Exploits

**Thursday, February 27
1:30PM – 2:20PM
Moscone West**

Participants

Jonathan Brossard
CEO
Moabi

Related Internet Articles

- DEF CON 24 – Jonathan Brossard – Intro to Wichcraft Compiler Collection
- Moabi – Post Memory Corruption Memory Analysis – Blackhat 2011 Research
- Moabi – Hardware Backdooring Is Practical – Blackhat 2012 Research
- Interview with Jonathan Brossard, CEO @ MOABI

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