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BLACK HAT USA 2014 RECORDED SESSIONS

KEYNOTES

Key1	**Cybersecurity as Realpolitik**	Dan Geer
Key2	**PWNIE Awards**	Panel

AppSec

AS1	**Pivoting in Amazon Clouds** Andres Riancho
AS2	**Attacking Mobile Broadband Modems Like a Criminal Would** Andreas Lindh
AS3	**CloudBots: Harvesting Crypto Coins Like a Botnet Farmer** Rob Ragan + Oscar Salazar
AS4	**Oracle Data Redaction is Broken** David Litchfield
AS5	**Finding and Exploiting Access Control Vulnerabilities in Graphical User Interfaces** Collin Mulliner
AS6	**How to Leak a 100-Million-Node Social Graph in Just One Week? - A Reflection on Oauth and API Design in Online Social Networks** Pili Hu + Wing Cheong Lau
AS7	**Epidemiology of Software Vulnerabilities: A Study of Attack Surface Spread** Kymberlee Price + Jake Kouns
AS8	**Building Safe Systems at Scale - Lessons from Six Months at Yahoo** Alex Stamos
AS9	**RAVAGE - Runtime Analysis of Vulnerabilities and Generation of Exploits** Xiaoran Wang + Yoel Gluck
AS10	**SVG: Exploiting Browsers without Image Parsing Bugs** Rennie deGraaf
AS11	**Time Trial: Racing Towards Practical Timing Attacks** Daniel Mayer + Joel Sandin
AS12	**Call To Arms: A Tale of the Weaknesses of Current Client-Side XSS Filtering** Martin Johns + Ben Stock + Sebastian Lekies
AS13	**The New Page of Injections Book: Memcached Injections** Ivan Novikov

Auditing

AU1	**Contemporary Automatic Program Analysis** Julian Cohen
AU2	**I Know Your Filtering Policy Better than You Do: External Enumeration and Exploitation of Email and Web Security Solutions** Ben Williams
AU3	**Fingerprinting Web Application Platforms by Variations in PNG Implementations** Dominique Bongard

Crypto

CR1	**The BEAST Wins Again: Why TLS Keeps Failing to Protect HTTP** Antoine Delignat-Lavaud
CR2	**Protecting Data In-Use from Firmware and Physical Attacks** Steve Weis
CR3	**48 Dirty Little Secrets Cryptographers Don't Want You To Know** Thomas Ptacek + Alex Balducci
CR4	**Probabilistic Spying on Encrypted Tunnels** Brandon Niemczyk +Prasad Rao

Embedded

EM1	**A Survey of Remote Automotive Attack Surfaces** Charlie Miller + Christopher Valasek
EM2	**Pulling Back the Curtain on Airport Security: Can a Weapon Get Past TSA?** Billy Rios
EM3	**Breaking the Security of Physical Devices** Silvio Cesare
EM4	**BadUSB - On Accessories that Turn Evil** Karsten Nohl + Jakob Lell
EM5	**How Smartcard Payment Systems Fail** Ross Anderson
EM6	**Smart Nest Thermostat: A Smart Spy in Your Home** Yier Jin + Grant Hernandez + Daniel Buentello
EM7	**Home Insecurity: No Alarms, False Alarms, and SIGINT** Logan Lamb

Enterprise

EN1	**The Library of Sparta** David Raymond + Greg Conti + Tom Cross
EN2	**Point of Sale System Architecture and Security** Lucas Zaichkowsky
EN3	**Unveiling the Open Source Visualization Engine for Busy Hackers** Andrew Hay + Thibault Reuille
EN4	**Babar-ians at the Gate: Data Protection at Massive Scale** Davi Ottenheimer
EN5	**Learn How to Control Every Room at a Luxury Hotel Remotely: The Dangers of Insecure Home Automation Deployment** Jesus Molina
EN6	**Stay Out of the Kitchen: A DLP Security Bake-Off** Zach Lanier + Kelly Lum
EN7	**When the Lights Go Out: Hacking Cisco EnergyWise** Matthias Luft + Ayhan Soner Koca
EN8	**From Attacks to Action - Building a Usable Threat Model to Drive Defensive Choices** Tony Sager
EN9	**The Devil Does Not Exist - The Role of Deception in Cyber** Mark Mateski + Matt Devost
EN10	**SAP, Credit Cards, and the Bird that Talks Too Much** Ertunga Arsal

Exploit

EX1	**Digging for IE11 Sandbox Escapes Part 1** James Forshaw
EX2	**Digging for IE11 Sandbox Escapes Part 2** James Forshaw
EX3	**My Google Glass Sees Your Passwords!** Xinwen Fu + Qinggang Yue + Zhen Ling
EX4	**Data-Only Pwning Microsoft Windows Kernel: Exploitation of Kernel Pool Overflows on Microsoft Windows 8.1** Nikita Tarakanov
EX5	**The Beast is in Your Memory: Return-Oriented Programming Attacks Against Modern Control-Flow Integrity Protection Techniques** Ahmad-Reza Sadeghi + Daniel Lehmann
EX6	**Dynamic Flash Instrumentation for Fun and Profit** Timo Hirvonen
EX7	**Abusing Performance Optimization Weaknesses to Bypass ASLR** Byoungyoung Lee + Yeongjin Jang + Tielei Wang
EX8	**Write Once, Pwn Anywhere** Yang Yu
EX9	**Bitcoin Transaction Malleability Theory in Practice** Daniel Chechik + Ben Hayak
EX10	**Extreme Privilege Escalation on Windows 8/UEFI Systems** Corey Kallenberg + Xeno Kovah + Samuel Cornwell
EX11	**Exploiting Unpatched iOS Vulnerabilities for Fun and Profit** Yeongjin Jang + Tielei Wang + Byoungyoung Lee + Billy Lau
EX12	**Thinking Outside the Sandbox - Violating Trust Boundaries in Uncommon Ways** Brian Gorenc + Jasiel Spelman
EX13	**Lifecycle of a Phone Fraudster: Exposing Fraud Activity from Reconnaissance to Takeover Using Graph Analysis and Acoustical Anomalies** Vijay Balasubramaniyan + Raj Bandyopadhyay + Telvis Calhoun
EX14	**Hacking the Wireless World with Software Defined Radio - 2.0** Balint Seeber

Forensics

FO1	**APT Attribution and DNS Profiling** Frankie Li
FO2	**GRR: Find All the Badness, Collect All the Things** Greg Castle
FO3	**Investigating PowerShell Attacks** Ryan Kazanciyan + Matt Hastings

BLACK HAT USA 2014 RECORDED SESSIONS (continued)

Hardware

HA1 SecSi Product Development: Techniques for Ensuring Secure Silicon Applied to Open-Source Verilog Projects
Joseph Fitzpatrick

HA2 How to Wear Your Password
Markus Jakobsson

HA3 Reverse-Engineering the Supra iBox: Exploitation of a Hardened MSP430-Based Device
Braden Thomas

HA4 A Journey to Protect Points-of-Sale
Nir Valtman

HA5 Creating a Spider Goat: Security with Intel CPU Transactional Memory Support
Igor Muttik + Alex Nayshtut

Incident Response

IR1 Secure Because Math: A Deep-Dive on Machine Learning-Based Monitoring
Alex Pinto

IR2 Threat Intelligence Library - A New Revolutionary Technology to Enhance the SOC Battle Rhythm!
Ryan Trost

IR3 The State of Incident Response
Bruce Schneier

IR4 Why You Need to Detect More Than PtH
Matthew Hathaway + Jeff Myers

Malware

MA1 Prevalent Characteristics in Modern Malware
Rodrigo Branco + Gabriel Negreira Barbosa

MA2 Full System Emulation: Achieving Successful Automated Dynamic Analysis of Evasive Malware
Christopher Kruegel

MA3 What Goes Around Comes Back Around - Exploiting Fundamental Weaknesses in Botnet C&C Panels!
Aditya K Sood

MA4 Dissecting Snake - A Federal Espionage Toolkit
Sergei Shevchenko

MA5 The New Scourge of Ransomware: A Study of CryptoLocker and Its Friends
Lance James + John Bambenek

MA6 One Packer to Rule Them All: Empirical Identification, Comparison, and Circumvention of Current Antivirus Detection Techniques
Alaeddine Mesbahi + Arne Swinnen

MA7 A Practical Attack Against VDI Solutions
Daniel Brodie + Michael Shaulov

MA8 Catching Malware En Masse: DNS and IP Style
Dhia Mahjoub + Thibault Reuille + Andree Toonk

MA9 Exposing Bootkits with BIOS Emulation
Lars Haukli

Mobile

MO1 Cellular Exploitation on a Global Scale: The Rise and Fall of the Control Protocol
Mathew Solnik + Marc Blanchou

MO2 Android FakeID Vulnerability Walkthrough
Jeff Forristal

MO3 Mobile Device Mismanagement
Stephen Breen

MO4 Reflections on Trusting TrustZone
Dan Rosenberg

MO5 Researching Android Device Security with the Help of a Droid Army
Joshua Drake

MO6 It Just (Net)works: The Truth About iOS 7's Multipeer Connectivity Framework
Alban Diquet

MO7 Sidewinder Targeted Attack Against Android in the Golden Age of Ad Libs
Tao Wei + Yulong Zhang

MO8 Mission mPOSsible
Nils + Jon Butler

MO9 Static Detection and Automatic Exploitation of Intent Message Vulnerabilities in Android Applications
Daniele Gallingani

MO10 Understanding IMSI Privacy
Ravishankar Borgaonkar + Swapnil Udar

MO11 Unwrapping the Truth: Analysis of Mobile Application Wrapping Solutions
Ron Gutierrez + Stephen Komal

Network

NE1 Evasion of High-End IPS Devices in the Age of IPv6
Antonios Atlasis + Enno Rey

NE2 Network Attached Shell: N.A.S.ty Systems that Store Network Accessible Shells
Jacob Holcomb

NE3 VoIP Wars: Attack of the Cisco Phones
Fatih Ozavci

NE4 Multipath TCP: Breaking Today's Networks with Tomorrow's Protocols
Catherine Pearce + Patrick Thomas

NE5 802.1x and Beyond!
Brad Antoniewicz

NE6 Abuse of CPE Devices and Recommended Fixes
Jonathan Spring + Paul Vixie

NE7 Leviathan: Command and Control Communications on Planet Earth
Kenneth Geers + Kevin Thompson

NE8 Internet Scanning - Current State and Lessons Learned
Mark Schloesser

NE9 Badger - The Networked Security State Estimation Toolkit
Edmond Rogers + William Rogers + Gabe Weaver

Policy

PO1 Governments As Malware Authors: The Next Generation
Mikko Hypponen

PO2 The Big Chill: Legal Landmines that Stifle Security Research and How to Disarm Them
Trey Ford + Marcia Hofmann + Kevin Bankston

PO3 Saving Cyberspace
Jason Healey

PO4 "Nobody is Listening to Your Phone Calls." Really? A Debate and Discussion on the NSA's Activities
Mark Jaycox + J. Michael Allen

Reverse Engineering

RE1 Reverse Engineering Flash Memory for Fun and Benefit
Jeong Wook Oh

RE2 Defeating the Transparency Feature of DBI
Kang Li + Xiaoning LI

RE3 A Scalable, Ensemble Approach for Building and Visualizing Deep Code-Sharing Networks Over Millions of Malicious Binaries
Joshua Saxe

RE4 SATCOM Terminals: Hacking by Air, Sea, and Land
Ruben Santamarta

RE5 Capstone: Next Generation Disassembly Framework
Quynh Nguyen Anh

SCADA

SCADA1 Bringing Software Defined Radio to the Penetration Testing Community
Jean-Michel Picod + Jonathan-Christofer Demay + Arnaud Lebrun

SCADA2 Why Control System Cyber-Security Sucks…
Dr. Stefan Lüders

SCADA3 ICSCorsair: How I Will PWN Your ERP Through 4-20 mA Current Loop
Alexander Bolshev + Gleb Cherbov

SCADA4 Miniaturization
Jason Larsen

Virtualization

VI1 OpenStack Cloud at Yahoo Scale: How to Avoid Disaster
Anders Beitnes

VI2 MoRE Shadow Walker: The Progression of TLB-Splitting on x86
Jacob Torrey

VI3 Poacher Turned Gamekeeper: Lessons Learned from Eight Years of Breaking Hypervisors
Rafal Wojtczuk

Windows

WI1 Windows Kernel Graphics Driver Attack Surface
Ilja van Sprundel

WI2 Computrace Backdoor Revisited
Vitaliy Kamluk + Sergey Belov + Anibal Sacco

WI3 Abusing Microsoft Kerberos: Sorry You Guys Don't Get It
Alva Duckwall + Benjamin Delpy

WI4 Understanding TOCTTOU in the Windows Kernel Font Scaler Engine
Yu Wang