

# RSA<sup>®</sup>Conference2017

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POWER OF  
OPPORTUNITY

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## TO CATCH A SNOWDEN ADDRESSING INSIDER THREAT *SEIZING [BACK] THE INITIATIVE*



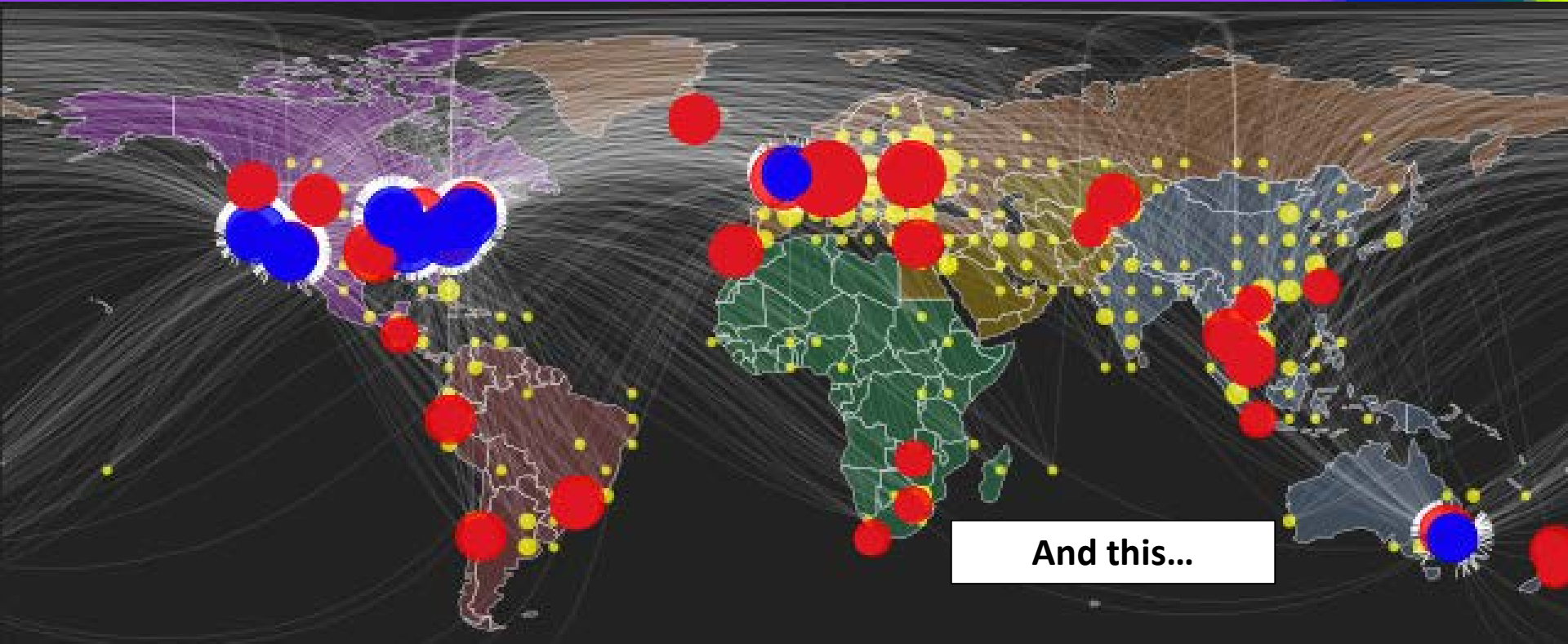
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# Everything's connected... A Day in 2013

#RSAC



And this...

# Not to be outdone – there's the insider threat



Now in a theater near you...



# Surveying the Cyber Landscape

#RSAC

Pockets of excellence exist but remain exceptional

Most organizations still:

Defend the wrong thing

... in the wrong time

Hold the wrong people accountable

... and worry about the wrong issues

# First Principles - Three Things to Embrace

- “Cyber” is a Convergence of People, Technology and Process ...  
... and Compels a Matched Response
  - All **Three** Areas Must be Addressed ... As a System
- Security is not possible – Defense at net speed is the goal
  - *Defensible systems that are actually defended*
- It's About Operations ... more than Technology
  - *Procedures, Cognizance, and Maneuver based on real-time cognizance*
  - *A word about Boards ....*

*Behaviors transcend and give critical context to transactions*

# An Insider Threat Case Study

- **Strong application of *Protect* measures**
  - Hardware, software, doctrine
  - Driven by known or developing threats
- **Strong application of *Defend* measures**
  - Perimeter defense and defense in depth against external adversaries
- **Strong *vetting of insiders* to ensure trustworthiness**
  - Whole-person vetting to attain and sustain trustworthiness
  - Internal controls focused on coarse limits (allowing innovation and high rates of productivity)
  - Post-event analysis (auditing)
- **Expert Forensics , Feedback and Follow-up**
  - If an event is detected ...
- **And yet... this was not enough. Why?**

# Lessons Learned (Practitioner Level)

- **High speed, converged networks introduce high speed, high leverage vulnerabilities**
  - Defense has to operate “at user/network speed”
- **Network & operating system defense is NOT the sweet spot**
  - Move the focus to DATA ... and do it in real-time
- **“Signature based defense” cannot keep up**
  - Understanding “behavior in context” ... matters more
- **Culture remains the most powerful force in the world**

You cannot defend against **some** threats in real-time ... and **others** in forensic time





# Lessons Learned (Board Level)

- **“Harm” is exponentially higher and *different-in-kind* than a few years ago**
  - Intellectual property theft at enormous scope and scale
  - “Reputation”
  - Attendant investment and opportunity costs
- **This is an operational – not a technology – issue**
- **There’s no inside/outside anymore**
- **Stove-piped security across HR, IT, and Physical systems creates silos**
  - Connect them
- **Culture matters ... as much or more than technology**
- **Exercising for disaster is the prerequisite for success under fire**
  - Building muscle memory and intuition
  - Informing your investments
- **You can’t go second in telling your story**



# Defend the Data – More than the Network

## In Real Time, Based on Current Context

- **Segmentation, Privilege Management, 2 Factor Authentication improves defensibility**
  - While marrying convenience and security
- **Sensors, Tagging, and Analytics enable Cognizance and Action**
  - As close to real time as possible
  - Behaviors more than signatures
- **Leverage security analytics across enterprise initiatives**
  - Tip and queue across Information Technology, Human Resources and Physical security
- **Ensure protection of privacy through controls placed on use of user/adversary behaviors**
  - Privacy Protection Must be a **Feature** ... US and European privacy schemes can be

Sensors (Data), Processing Power, and Analytics are Finally Ready to Deliver Real-time

# Summing Up

- **Assume adversaries are on your network**
  - Regardless of their physical location
- **Act on that assumption**
  - Instrument data, people, and sensors
  - Move from *reacting* well ... to *tracking* well ... to *anticipating* well
- **The paradox of defense:**
  - Allowing agility and respect for trusted parties while ....
  - Identifying and stopping inappropriate use, theft, destruction of corporate resources ...
  - *At the speed of the stakeholders themselves*





# Questions?