Shouldn't your "Incident Response" be "Instant Response?"







Madness

- 2007 BlackEnergy Malware Developed
- 2014 17 Power Related Companies Breached (including 4 Utilities)
- Dec 2012 2 US Power
 Plants Breached
- Dec 2015 Ukraine Power
 Grid Hacked/Brought Down
- 317 Million New Malware Variants in 2015



War







Command and Control

> Infection Installation

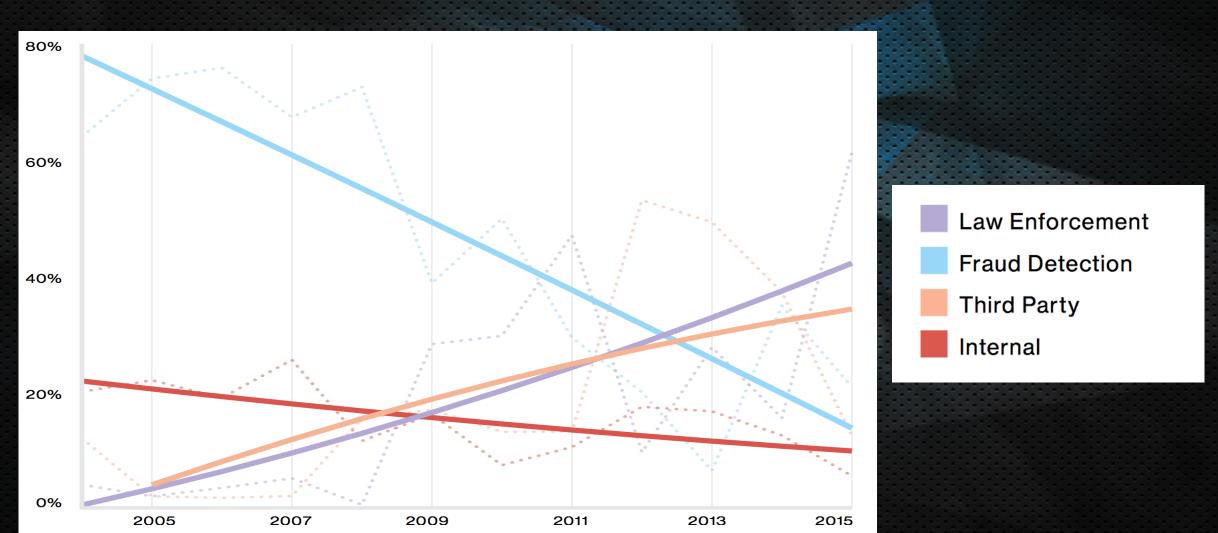
Compromise Exploit



\$75.4 Billion \$18 Billion

Reality

Breach Detection Sources



Reality

Known External Actors

55%

Organized Crime

21%

State affiliated

2%

Activist

1%

Former employee

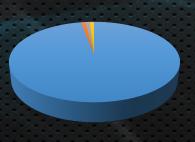
96%

Of breaches Involve Unauthorized Programs on The End Point



92%

Of breaches are perpetrated by outsiders



97%

Of companies
Are Breached, the
Majority from
Special Purpose
Malware

Who found the incident



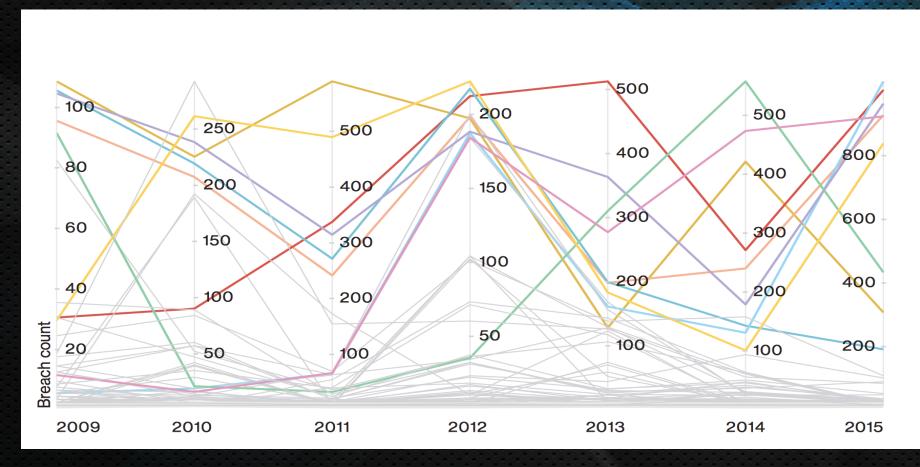




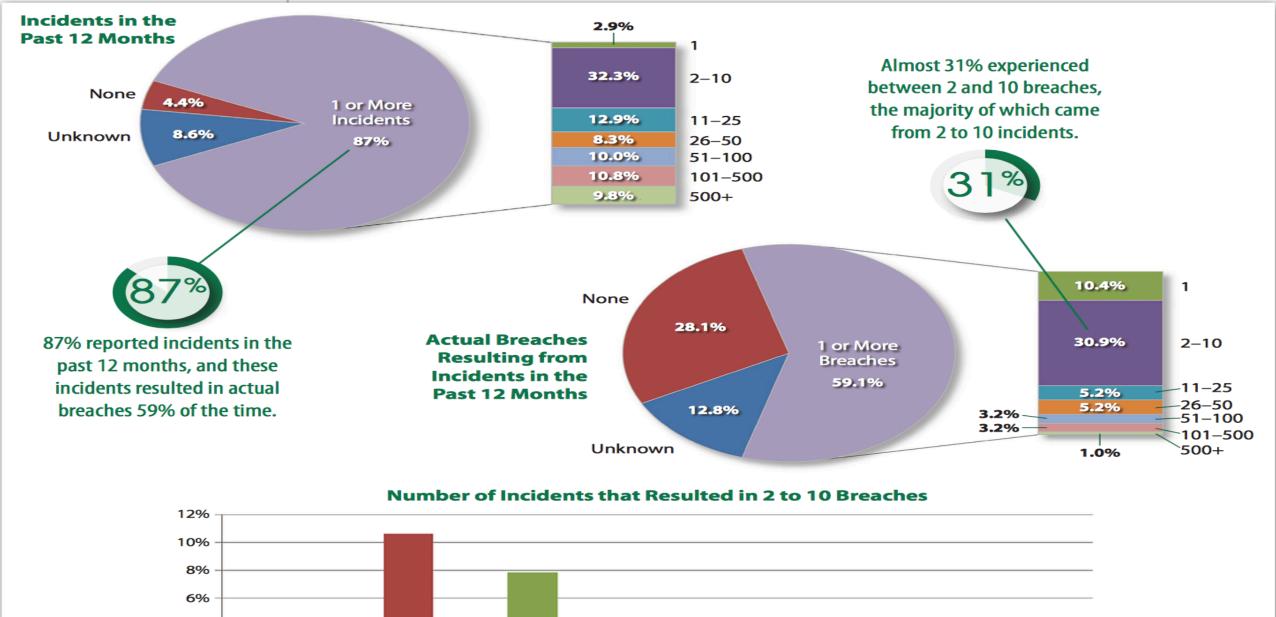


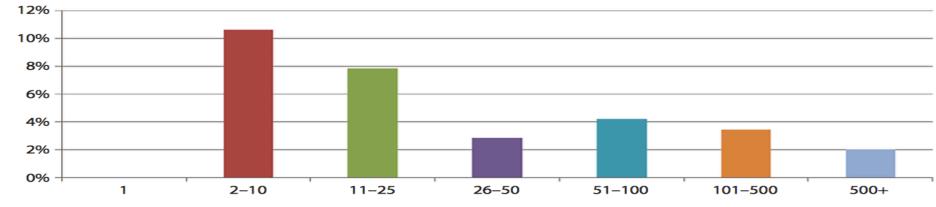
Reality

Hackers Will Find a Way.....









Reality Sucks PATTERN OF HIGH PROFILE CYBER ATTACKS



Compliance is not Capability!!!!!



These tools are FISMA, PCI, and HIPAA Compliant



But They Won't Help You with APT!

Some Uncomfortable Questions.....

10 Years After the Discovery of Power Grid Specific Malware:

- Do you know every process/program that is running in your network?
- Are you relying on obscurity to provide security?
- Have you identified all your vulnerability points?
- What are you doing about physical security, EMP?
- How fast can you remediate a situation?
- When have you truly tested your security TTP's?

Think Asymmetrically About the Problem

Motivators

- Money
- Prestige
- Political
- Military

Strengths

- Motivated
- Patient
- WellFunded
- Talented

Weaknesses

- Dev Time/Costs
- Communications
- Dev Costs
- IndividualSpecificCapabilities

Technology, Training and People are Necessary to Defeat the Adversary

....And Change the Way We do Business

Current State

- Reactive
- Lack of Endpoint Visibility
- Extremely Poor Alert Context
- Heavy Reliance on Off Line Analysis
- Heavy Reliance on Manual Process
- Fragmented Toolsets
- Obsolete Procedures
- Compliant, But not Capable

NextGEN

- Proactive Hunting
- Complete-Real Time
 Endpoint Visibility
 - 100% ProcessIdentification
 - Live RAM Analysis
 - Live HD Analysis
- Instant Response
- Live Response No need to Fly In SME
- Big Data Analytics

Speed to Resolution (S2R)

- Time from Discovery to Remediation
- Dependent on:
 - People
 - Process
 - Tools
- S2R Using Legacy Industry Tools is 10 Months
- NextGen CyFIR S2R = Minutes

