#### RSACONFERENCE 2014 ASIA PACIFIC & JAPAN



# Accelerate Your Security Operations With Machine Speed Responses to Cyber Attacks

SESSION ID: SPO-T08

#### **Bernie Thomas**

Principal Security Architect
CSG Invotas
@csginvotas





### Barriers to Speed...

- Attack surface continues to grow in parallel with technology adoption – more to protect
- We can't keep up! Staff headcount isn't keeping pace with the increasing incident volumes – never enough trained staff
- Explosion in specialty point solutions increases complexity and limits agility of response – tools, tools and more tools...
- Attackers don't have to deal with politics and bureaucracy....





### Breaches Take Too Long to Fix

More than one-third report that security events typically take hours to detect and diagnose. The majority indicate that resolution takes days, weeks, or even months.

#### **Time Spent on Each Process Ensuing a Security Event**

	Seconds	Minutes	Hours	Days	Weeks	Months	Don't know
Detection	10%	29%	35%	11%	2%	6%	7%
Diagnosis	3%	11%	48%	25%	4%	3%	6%
Resolution	1%	9%	30%	37%	13%	4%	6%

From IDG Research Services conducted January 2014





### Why Is Response Slow?

### What consumes

a SOC analyst's time?

**Approvals** 

Opening, updating and closing trouble tickets

Manually moving from one tool to another

Meetings

**Email** 





### **Current Operational Environment**













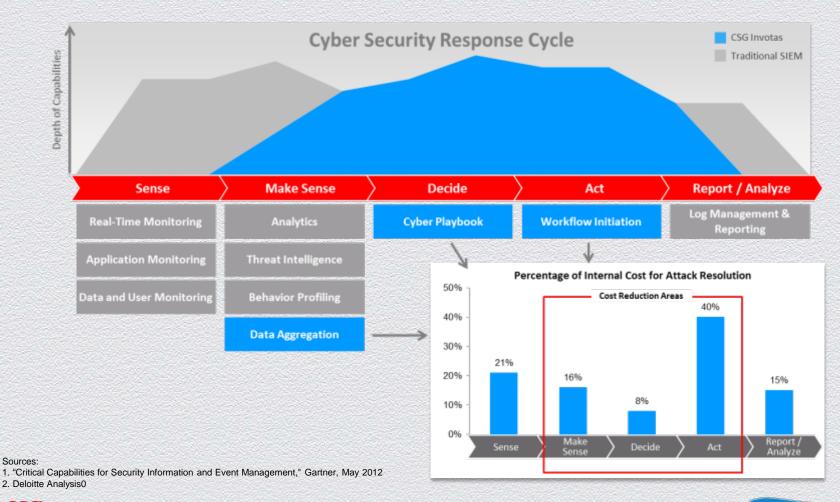








### Where Can We Improve?





### How Can We Improve?

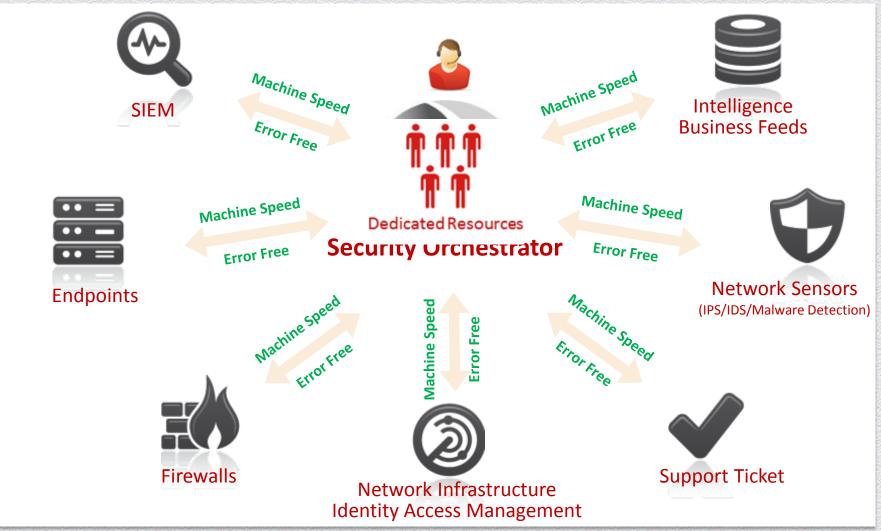
## **Security Orchestration**

Immediate, Interoperable, Real-Time





### **Current Operational Environment**







## Orchestration The Next Evolution of Cyber Security

- Easily manage responses to attacks with large volumes and complexity, with fewer resources
- Respond to and contain attacks in seconds, minimizing potential damage, loss and risk
- Manage and protect from a "single pane of glass"
- Elevate your current staff to higher value services and reduce the cost and frequency of new hires





## Simplicity Scales Making Orchestration Practical for Everyday Use

### Unification: Art of Managing Many

- Rarely does it take just one device or resource to respond to cyber attacks
- Analysts have to interface with each point solution separately
  - Required training for each tool
  - Tools are often siloed in different parts of the organization
  - These issues can cause delays in response time
- Here are just a few common tools:



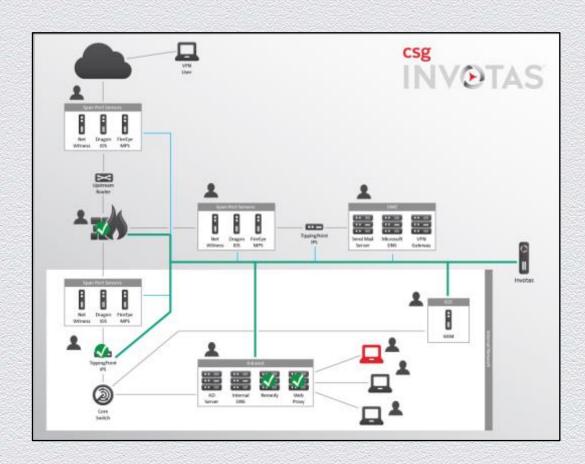
 Having a unified approach using automation and orchestration for defensive strategies can save precious time and human capital





### Security Unification Framework

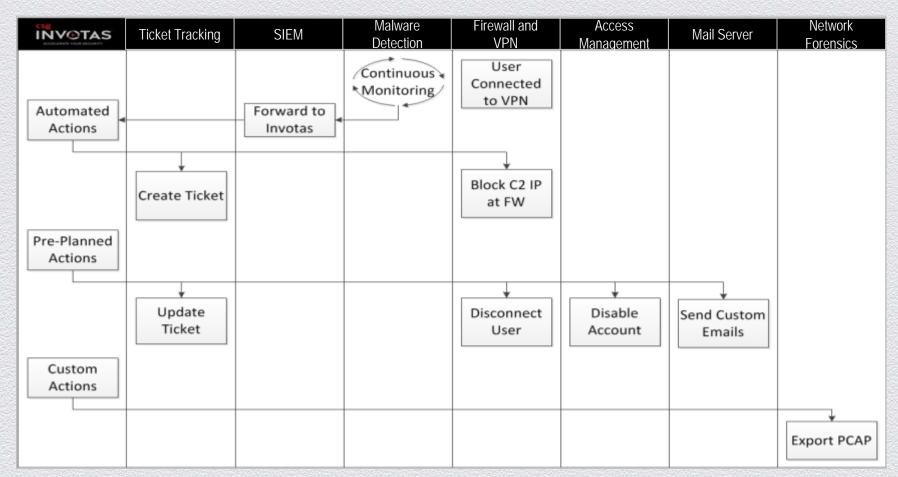
- Unified Management, tying point solutions together
- Present relevant data quicker for event analysis
- Accelerate incident response with faster response
- Lower risk of human error
- Detailed audit trail of all actions taken is a must







### Real World Example: Protecting Against A Compromised VPN User







## Analyzing the Results Orchestration and Automation

- Current State for Infected VPN Users
  - Time from Identification to Resolution: 45 minutes
  - Occurs about 120 times per month = 90 hours
- Automation and Orchestration of the VPN Use Case
  - Time from Identification to Resolution: < 1 minute</li>
  - Efficiency Gain: 98% efficiency gain in human time –
     (88 hours a month or ½ FTE)





## Key Benefits Automation and Orchestration

Asecultity or chestration
It with blesombles radioscurity
states it takes to

- contain based hebavior throughout the enterprise's security incidents by systems
- Behavioral Scoring of actors
- the security state of the tion
- networkattdmanhjerce
   speadering
- Decision Support

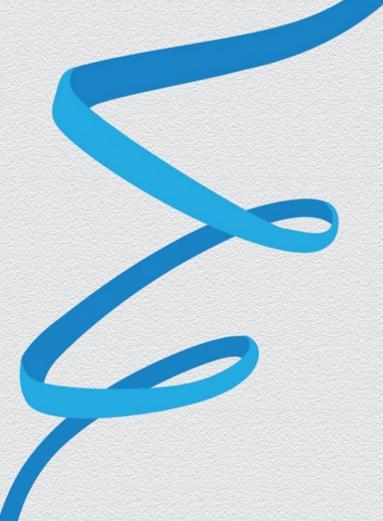
#### **Key Benefits:**

- Unification of Action: Synchronizes largescale changes using controlled automation, with analyst-in-loop oversight
- Cost Efficiencies: Fewer personnel hours spent performing repetitive tasks means more hours spent actively defending networks
- Speed & Effectiveness of Response:
   Predetermined courses of action reduce time to contain compromises & thwart attacks
- Accurate measurement: Repeated actions can be audited, measured, perfected, and repeated





### RSACONFERENCE 2014 ASIA PACIFIC & JAPAN



## **Questions?**

# How to Accelerate your Response to Attacks

Bernie Thomas
Principal Security Architect
bernie.thomas@csginvotas.com
@csginvotas