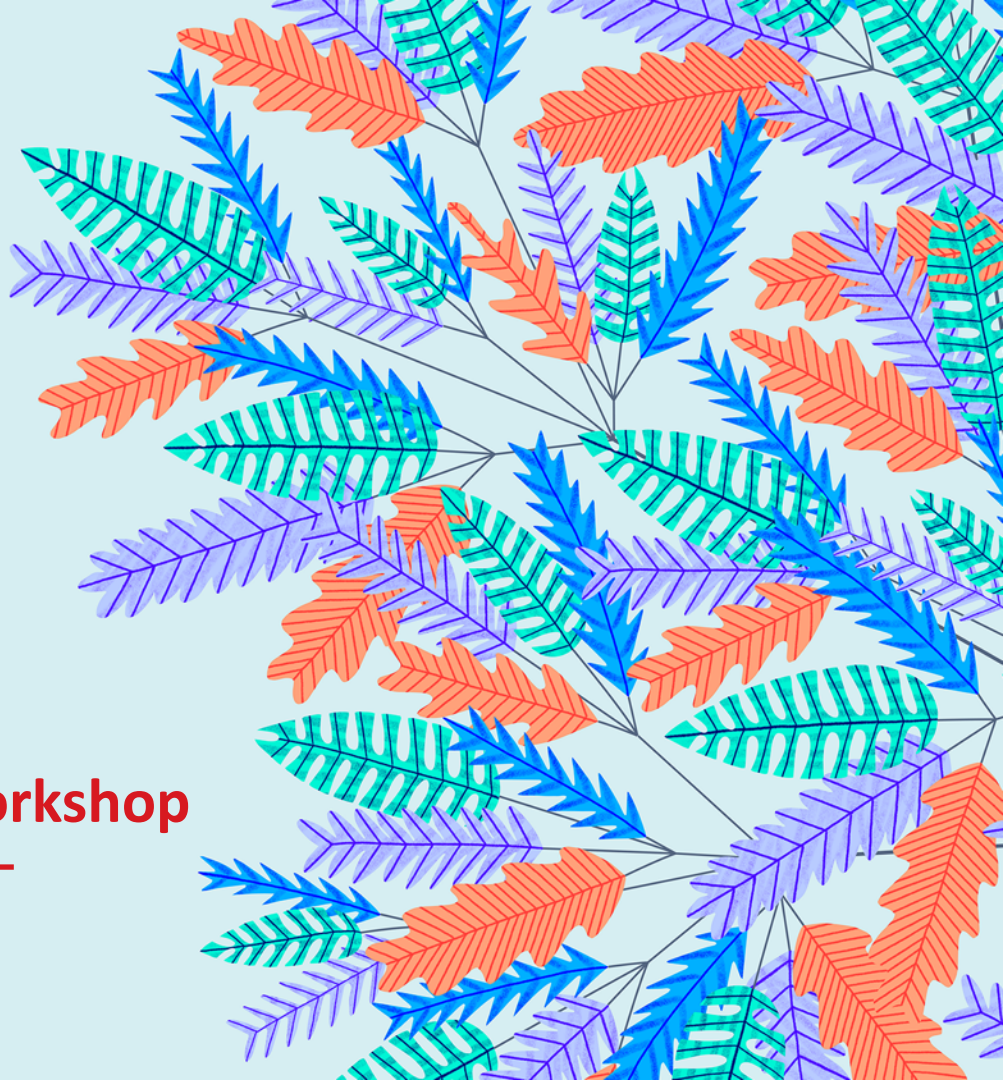


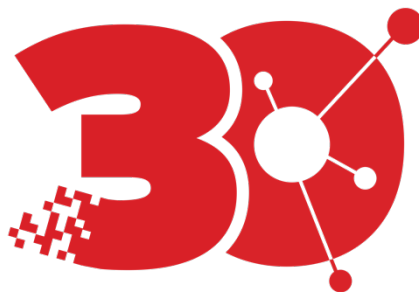


Evolving Your SOCs with Trend Micro OpenSOC XDR

France-Japan Cybersecurity Workshop



Vision: A World Safe for Exchanging Digital Information



YEARS OF INNOVATION

1988

Peace of mind
computing

1998

Your Internet
Virus Wall

2008

Securing Your
Journey to the Cloud

2018

Securing Your
Connected World

Strategy: Continually Adapt Protection

$$x = i + u - t$$



Anticipate shifts in infrastructure



Embrace changes in user behavior



Adapt protection for full range of threats

The Hardest Job in Tech



On the Minds of Global CSOs

Increasingly active regulatory environment

Endless shortage of skill sets

Vendor consolidation

Rise of the SOC and incident response

Shadow IT becomes real IT



Evolution of CISO and SOC/IR activities

- Compliance CISO = 50%
 - Auditing, reporting, governance, and controls
- “Sweepers” - Integrator CISO = 25 %
 - IOC platform, Open/API driven, SOAR, eDR/MDR
- “Hunters” – Anomaly CISO - 25 %
 - Analytics, Behavioral and account ML/AI, baseline & anomaly detection

50-90,000

250,000

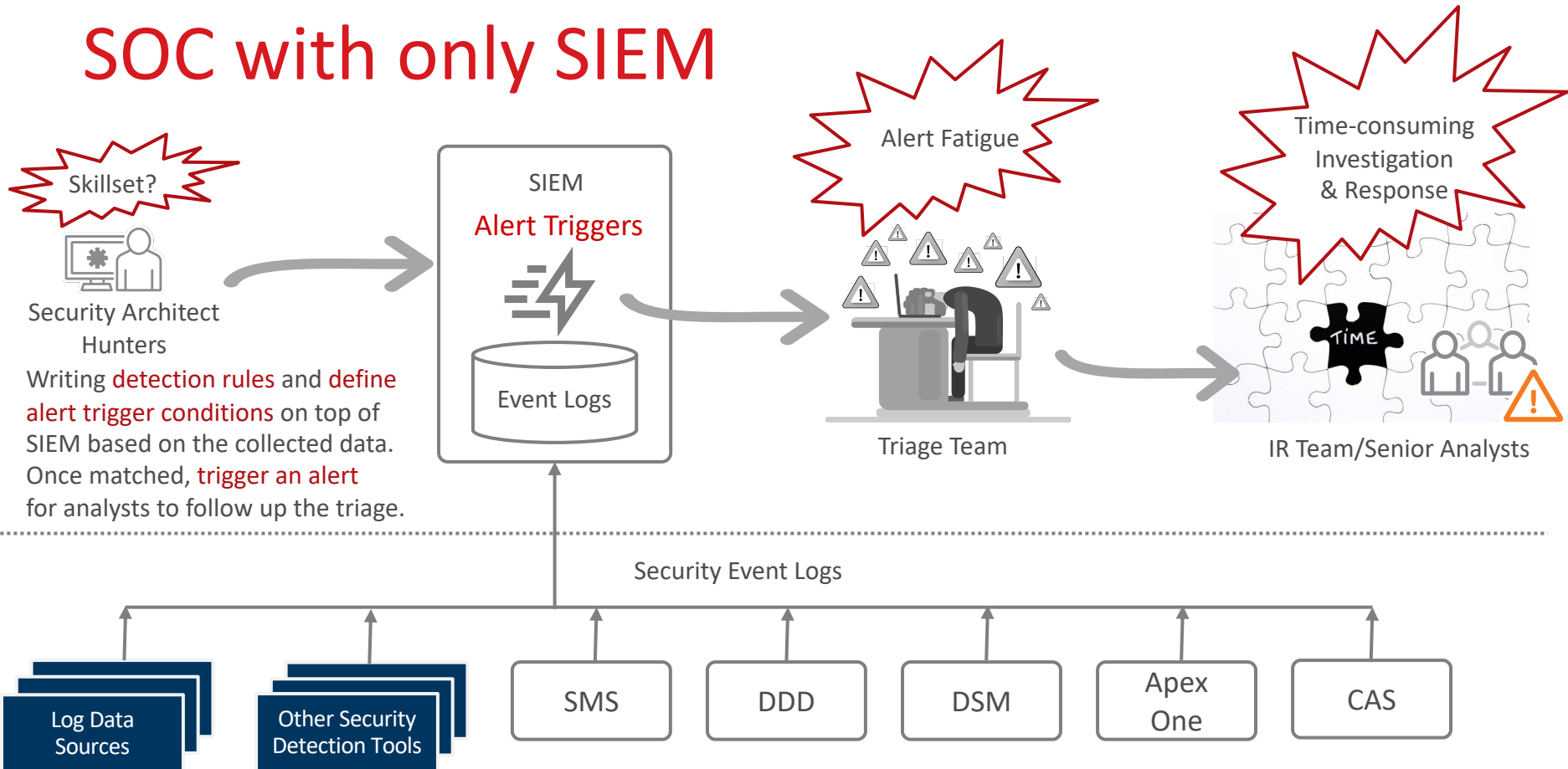
2,000,000

The Reality

- That average fortune 1000 company SOC has **50-90,000 events** per SECURITY events per second into their SIEM
- We have a customer with **250,000 events** per second (government)
- We have a TippingPoint customer with **2M events** per day JUST from TippingPoint

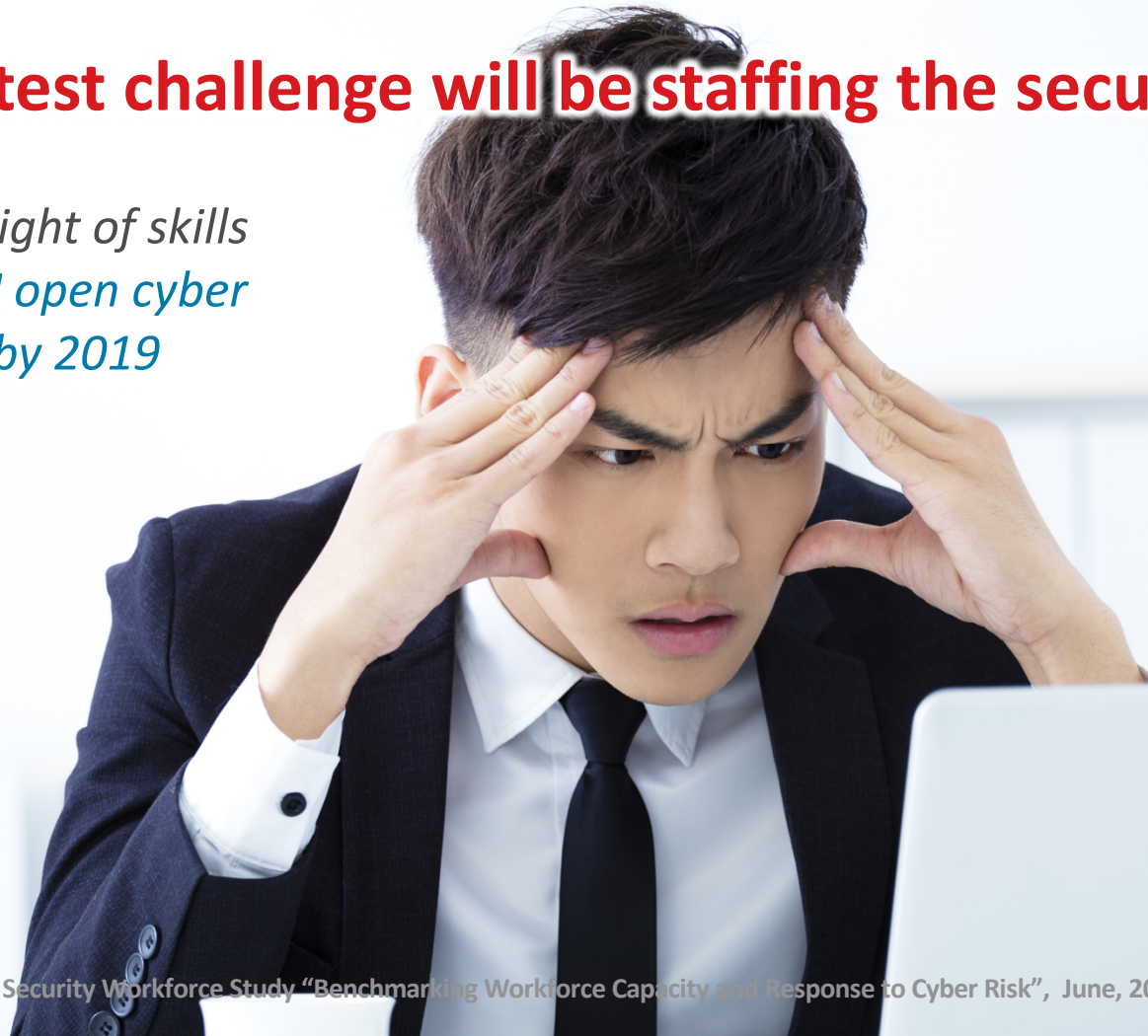
- Most customers deal with manually by having a SOC tier1 analyst (**Triage**) look at these events and try to determine what is important
- We love our SIEM partners and we do not do SIEM, but the math-based approach of SIEM is not working and customers are asking Trend Micro **how we can help** because we have a lot more **context on threat behavior** than just math-based correlation

SOC with only SIEM

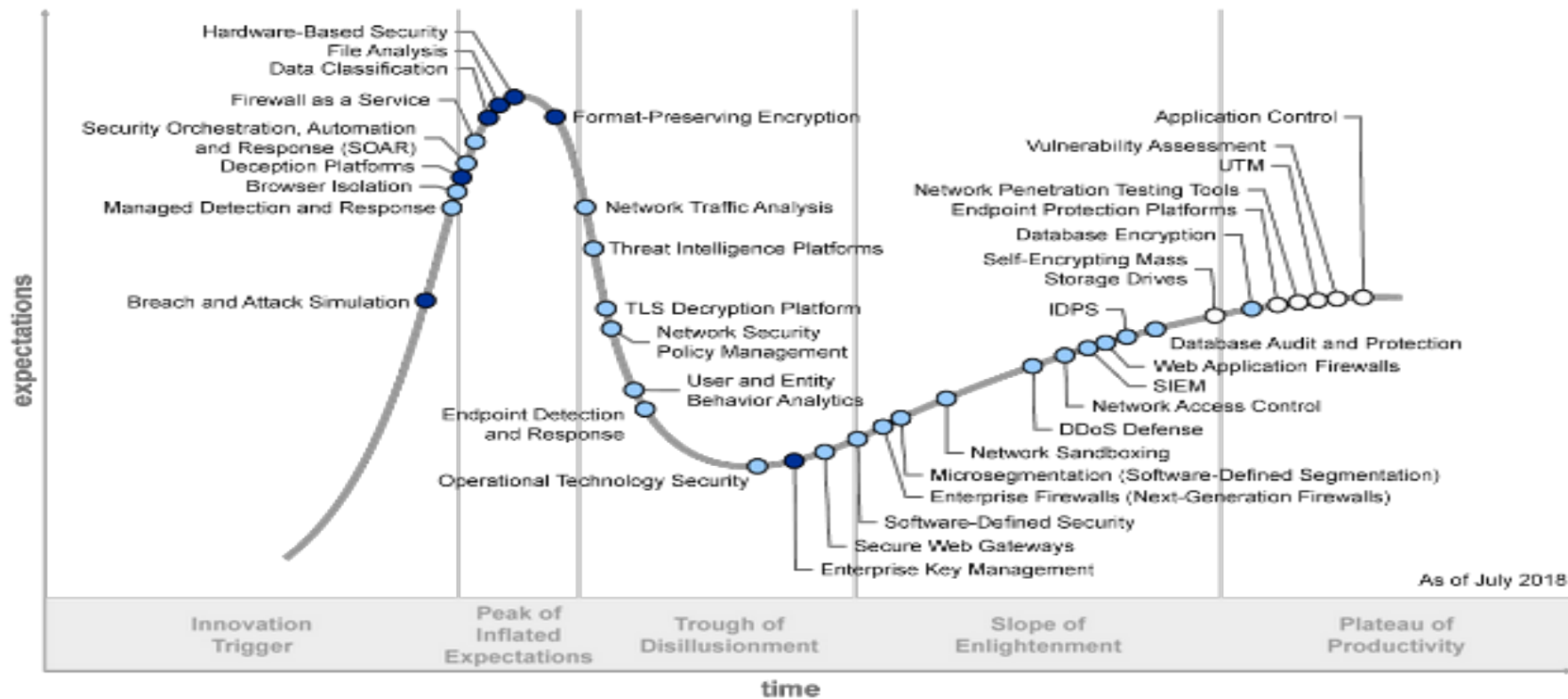


Next greatest challenge will be staffing the security experts

*Especially in light of skills shortage: **2M** open cyber security jobs by 2019*



When Your Staff is Bored.....



Plateau will be reached:

○ less than 2 years ● 2 to 5 years ● 5 to 10 years ▲ more than 10 years ⊗ obsolete before plateau

55

TODAY'S SOC

Monitoring of huge number of alerts

PAIN!

Overwhelming (especially with skills shortage), and difficult to discover **unknown** threats

Management of individual events

PAIN!

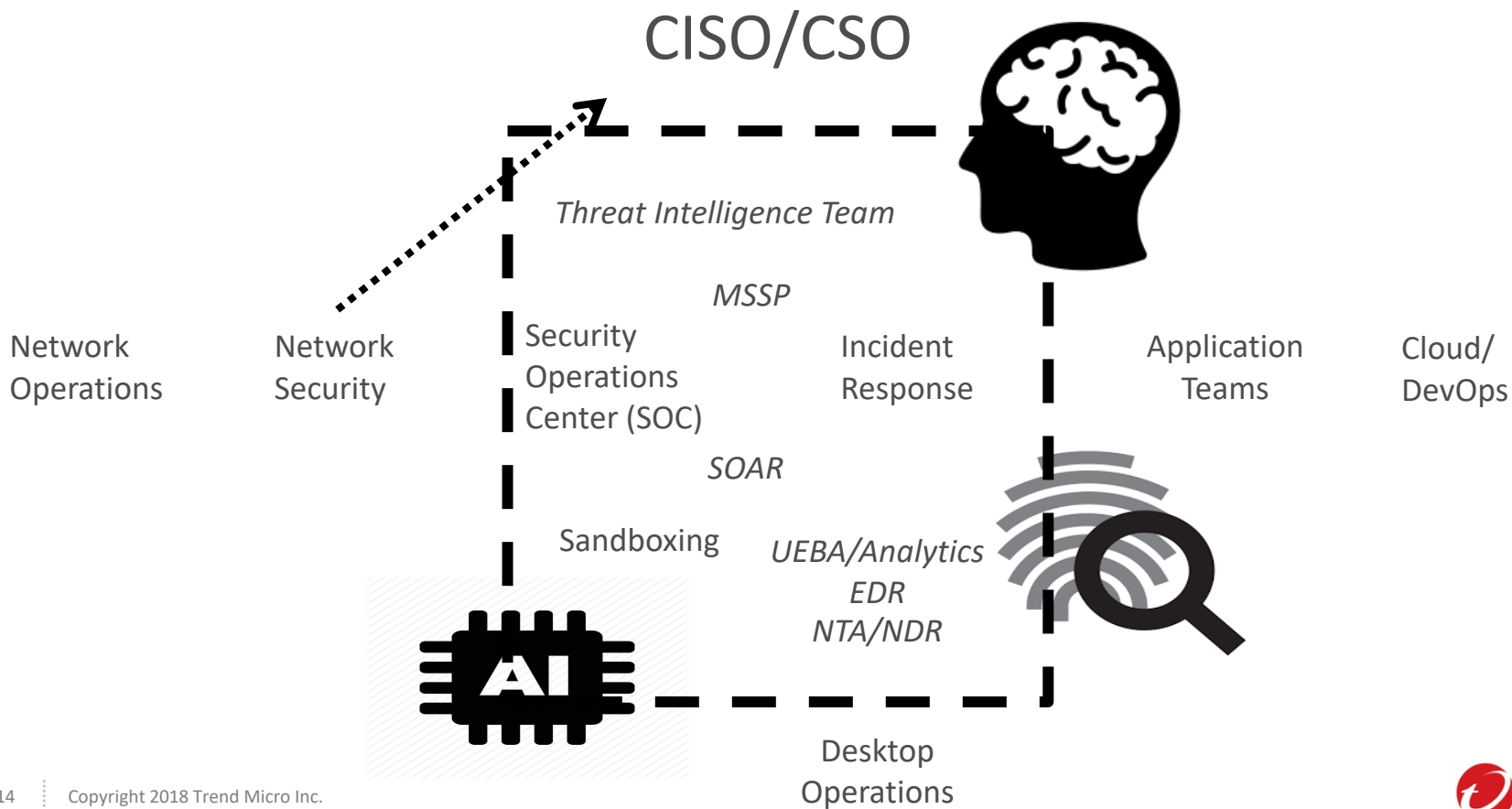
Silos of visibility with limited understanding of risk posture

Report generation to enable response

PAIN!

Slow, distributed response across security layers

All of the “NEXT-GEN SOC” Technologies Promise Automation



Do I need a SOAR platform ?

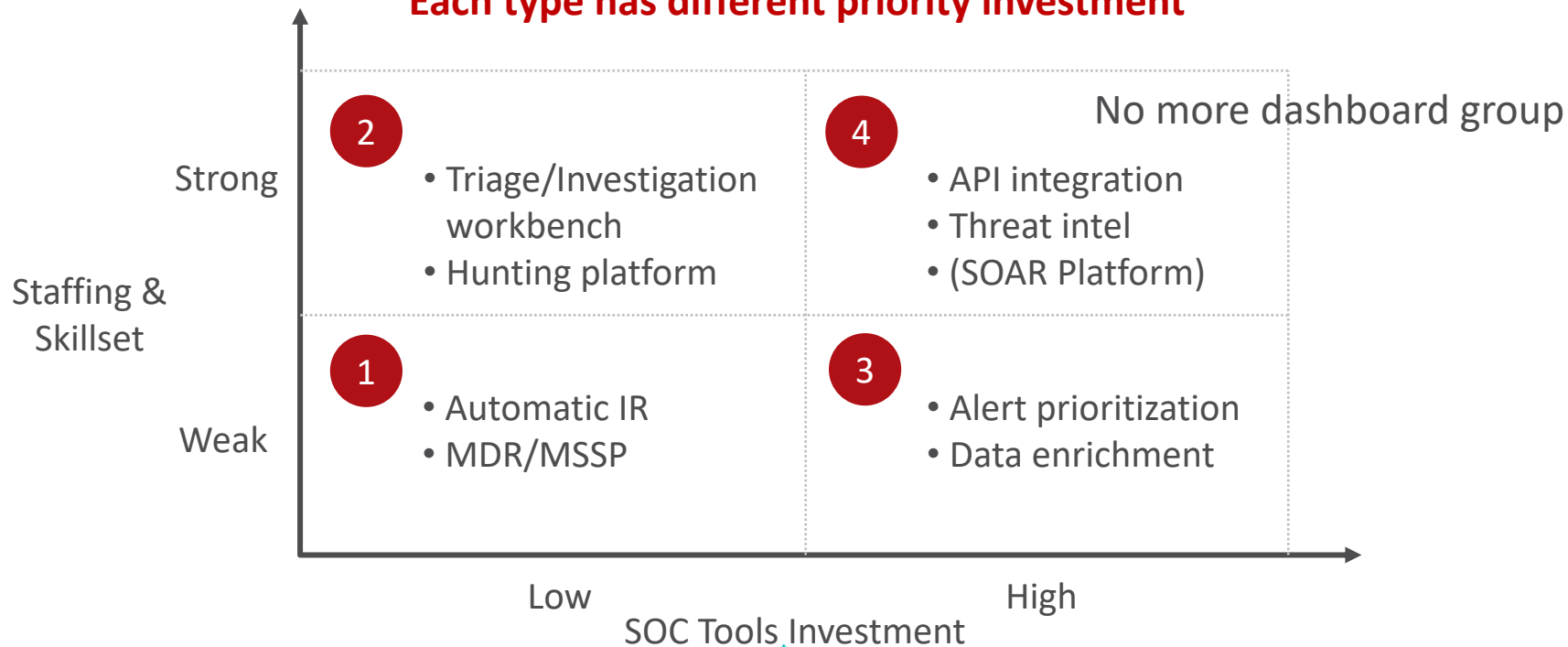
By end of 2020, 15% of organizations with > 5 people in security operations will leverage a SOAR

-- RedScan

**What about the other 85 % ?
Is my goal really automation
or is it prioritization ?**

SOC Maturity Level

Each type has different priority investment



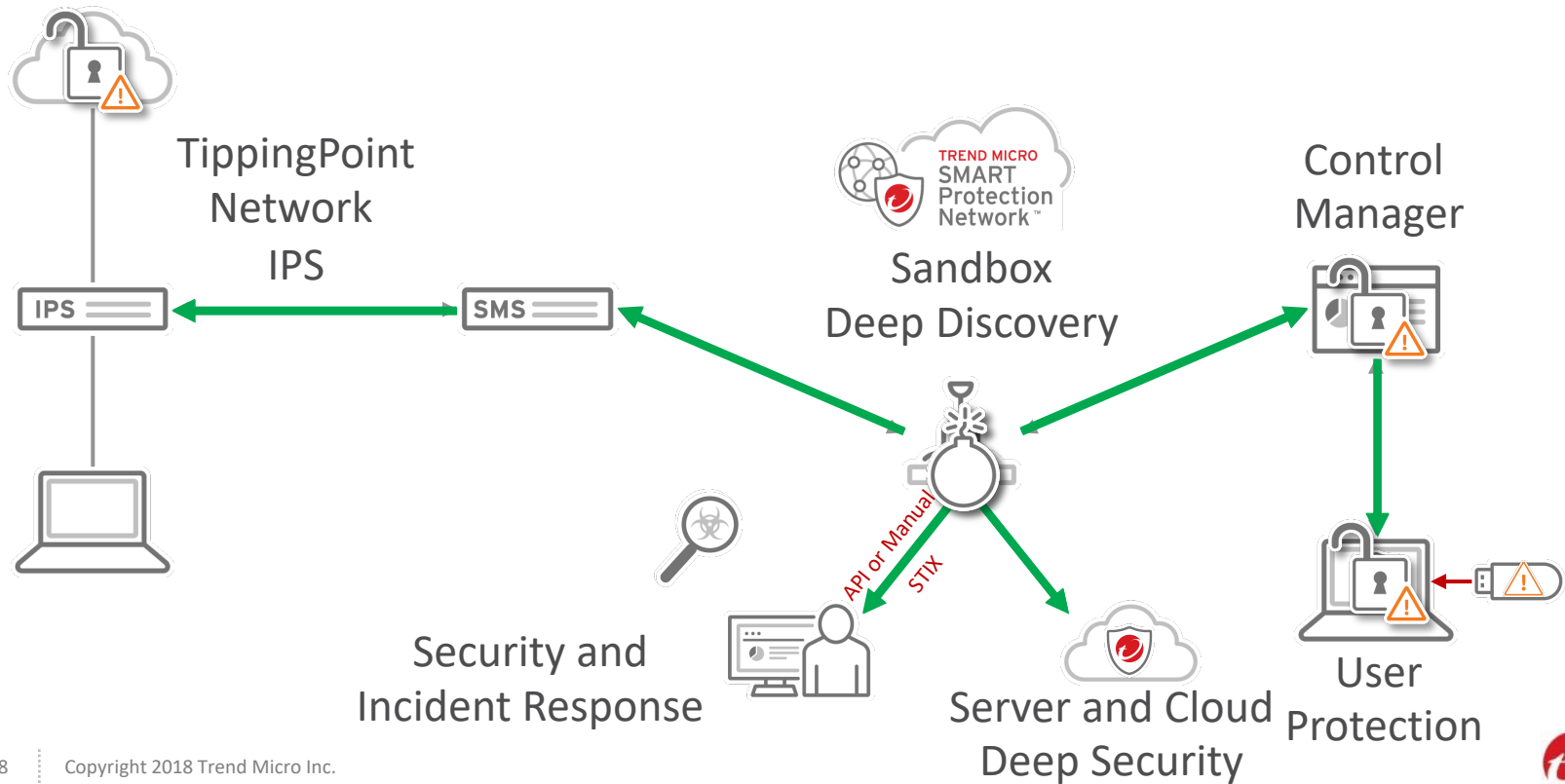
Our Approach

Automation is NOT just another product

Some recent technologies/methodologies help:

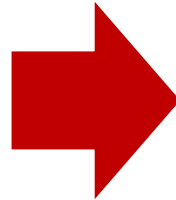
- Workflow automation across traditionally siloed product lines
- APIs and industry standards across the industry
- Job-focused AI and ML technologies (vs. horizontal AI applications)

Connected Threat Defense: Automated Faster Time to Protection



High Level Value of what we are trying to do

- Can't find people
- Too many products
- What to prioritize
- Which events move to Prevention + Investigation and Response ?



- **Less Events - Less vendors - Less Interfaces**
- Many workflow steps **automated**
- **Enable people to focus on top priority events**

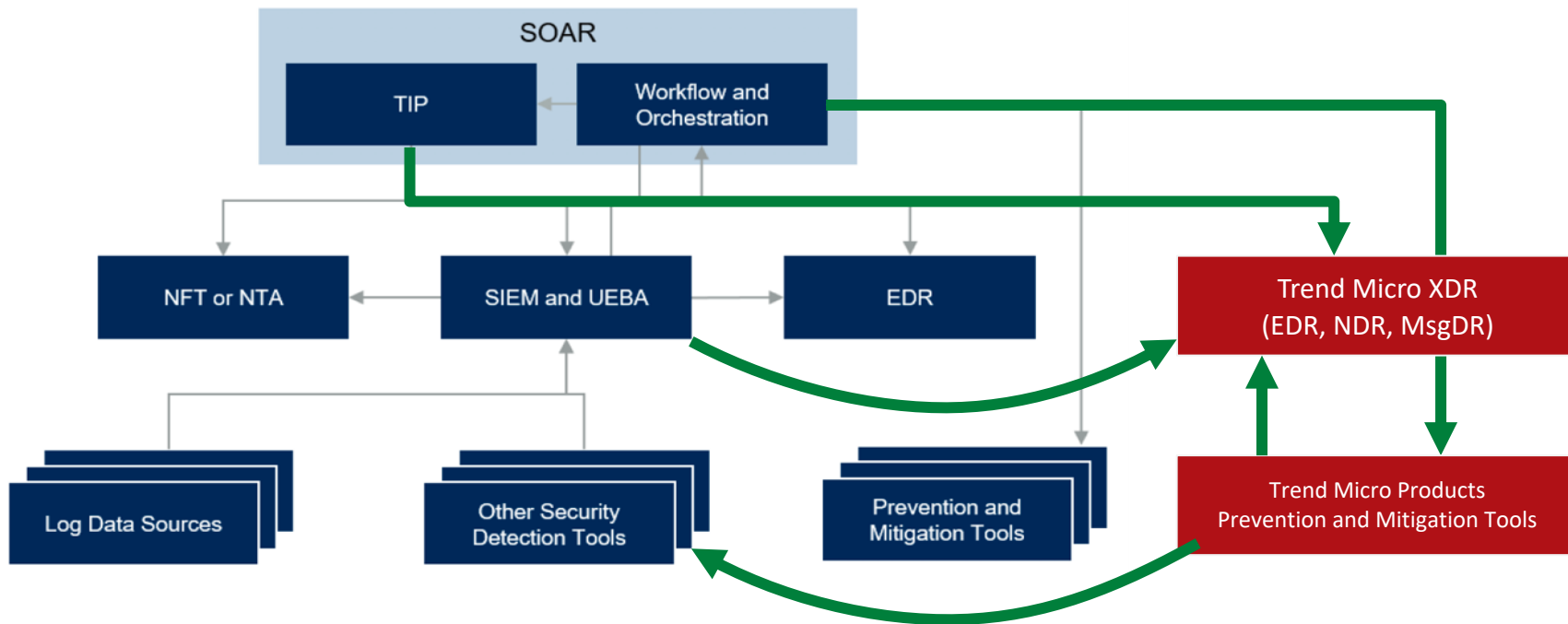
Introducing OpenSOC XDR

- Cloud-base detection and response platform for ENT/VLE customers with Trend Micro 3Cs solutions to enhance their security operation against cyber threats

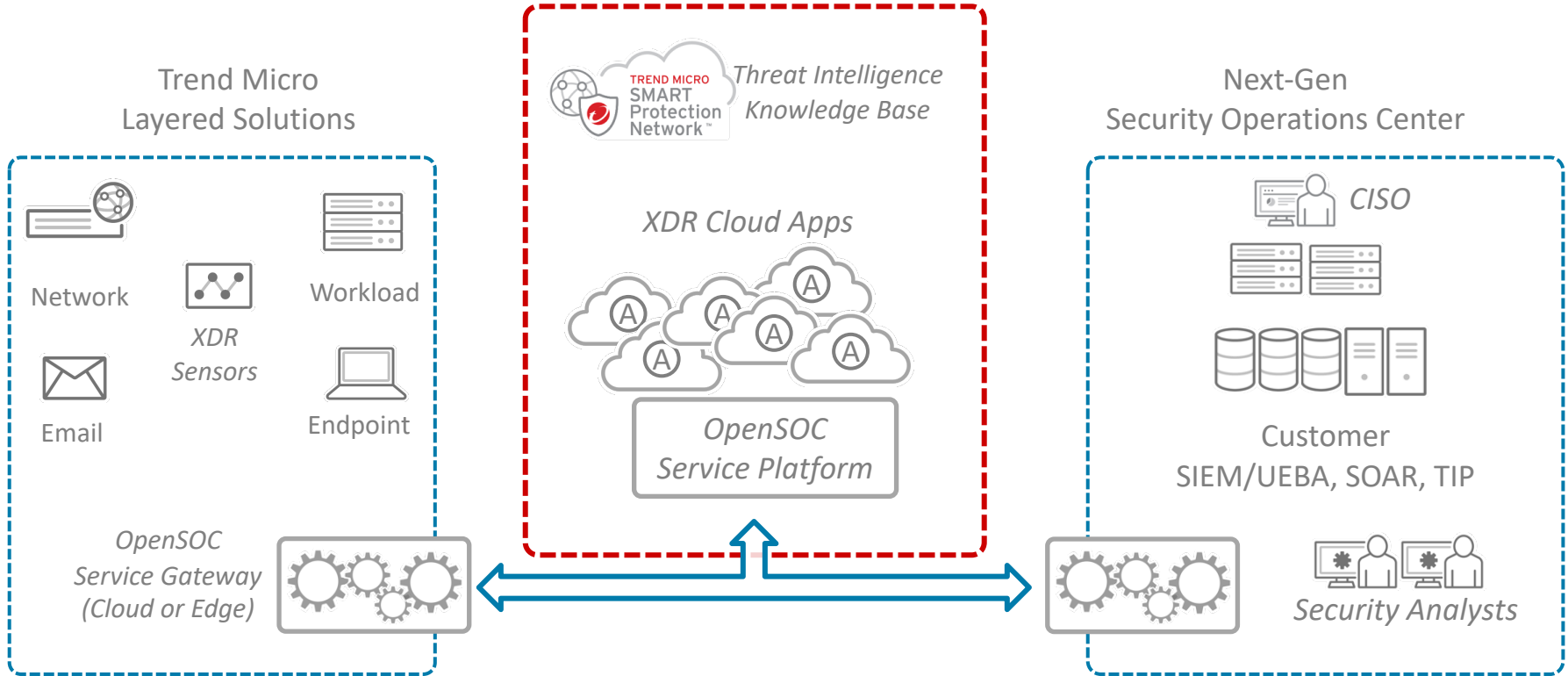
Why XDR

- EDR – narrowly focused, a view of only the endpoint
- XDR – sees everything (X: a far broader set of data)
 - Endpoint, workload, cloud, OT, network
 - Security event log data, host/network/messaging activity data
 - One single visibility into the different stages of attack path and RCA
 - Security teams find more threats faster, and then respond them faster

How OpenSOC XDR and TM Products Fits



OpenSOC XDR Overview



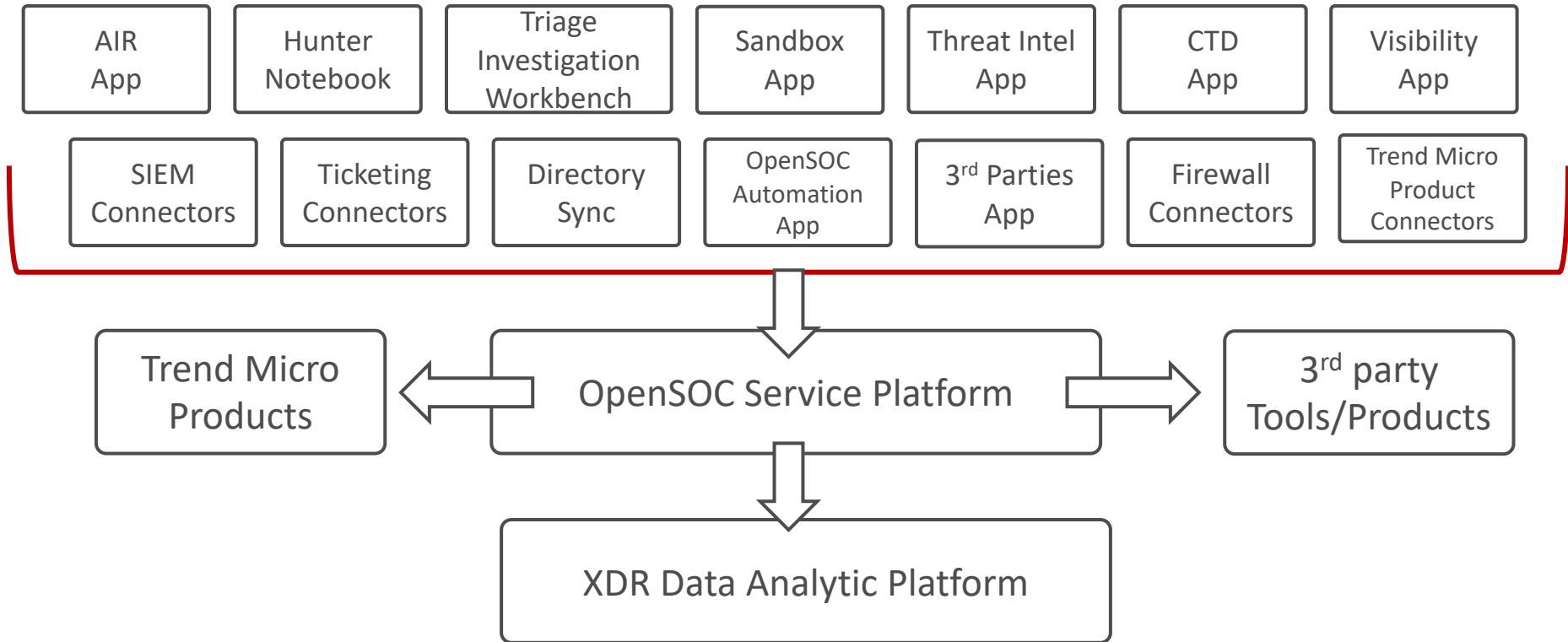
Top 3 Use Cases

- Effective alert triggers with incident RCA
- STIX/IOC sweeping for compromised hosts
- Automatic threat mitigation

OpenSOC XDR Value Proposition

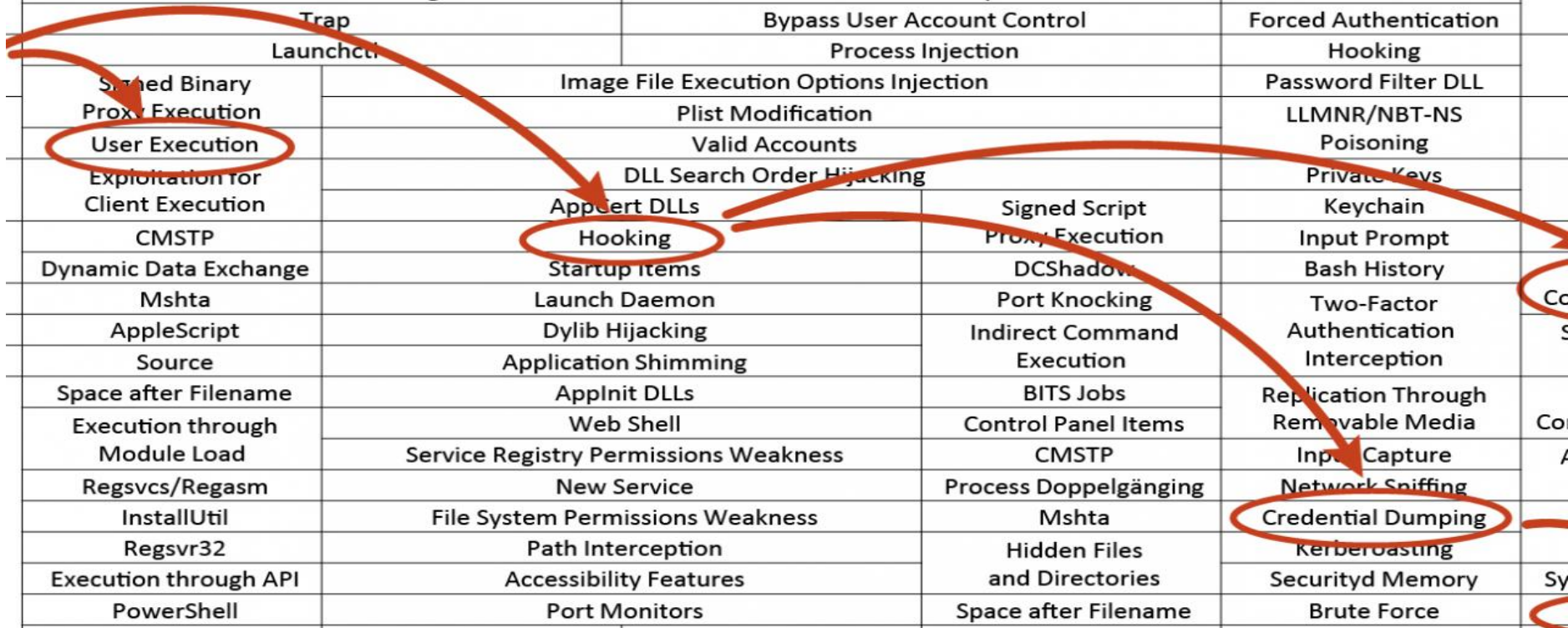
- *Reduce MTTD & MTTR to security incidents*
 - 30 years of Global threat intelligence and 15 years of threat AI/ML analytics
 - Reduce the amount of time it takes on triage to discover a potential security incident (**alert prioritization**)
 - Global threat expertise and vendor guidance
 - Reduce the amount of time it takes on incident response to automatically and collaboratively control, remediate and/or eradicate a threat once it has been discovered (**automation**)
- *Fit with any security operation designs*
 - An open platform with industry standards ensures that
 - Security architects can satisfy their integration needs,
 - Operation teams can act in their best interests,
 - Partners can add value on top of it.

OpenSOC XDR App Store



MITRE ATT&CK™ as the Common Language

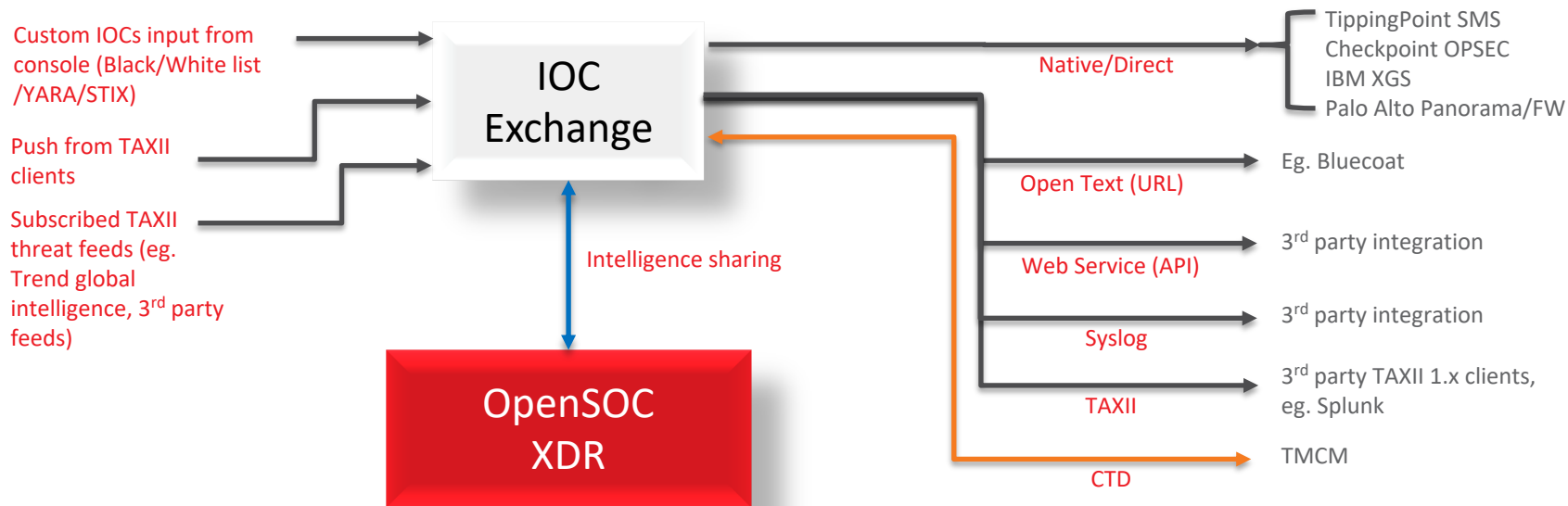
Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access
	Scheduled Task		Binary Padding	Credentials in Registry
	LSASS Driver		Extra Window Memory Injection	Exploitation for Credential Access
	Local Job Scheduling		Access Token Manipulation	Forced Authentication
	Trap		Bypass User Account Control	Hooking
	Launchctl		Process Injection	Password Filter DLL
	Scheduled Binary Proxy Execution	Image File Execution Options Injection		LLMNR/NBT-NS Poisoning
	User Execution	Plist Modification		Private Keys
	Exploitation for Client Execution	Valid Accounts		Keychain
	CMSTP	DLL Search Order Hijacking	Signed Script Proxy Execution	Input Prompt
	Dynamic Data Exchange	Appcert DLLs	DCShadow	Bash History
	Mshta	Hooking	Port Knocking	Two-Factor Authentication Interception
	AppleScript	Startup Items	Indirect Command Execution	Replication Through Removable Media
	Source	Launch Daemon	BITS Jobs	Input Capture
	Space after Filename	Dylib Hijacking	Control Panel Items	Network Sniffing
	Execution through Module Load	Application Shimming	CMSTP	Credential Dumping
	Regsvcs/Regasm	Applnit DLLs	Process Doppelgänger	Kerberoasting
	InstallUtil	Web Shell	Mshta	Securityd Memory
	Regsvr32	Service Registry Permissions Weakness	Hidden Files and Directories	Brute Force
	Execution through API	New Service	Space after Filename	
	PowerShell	File System Permissions Weakness		
		Path Interception		
		Accessibility Features		
		Port Monitors		



Embracing IOC Standards – STIX and TAXII

- Standard based Advanced Threat Intelligence Sharing

- Intelligence management, consolidation and sharing with 3rd party products by standard formats and protocols



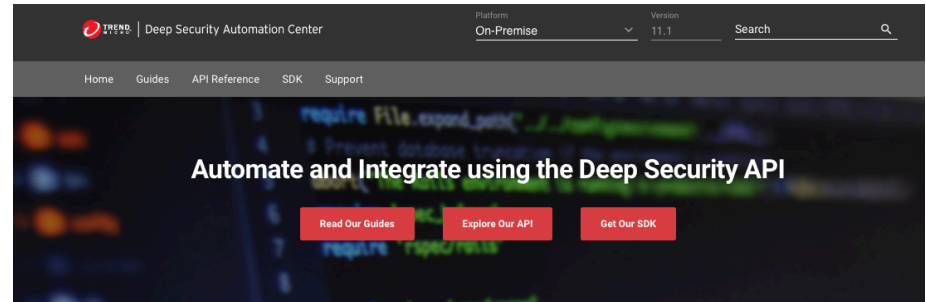
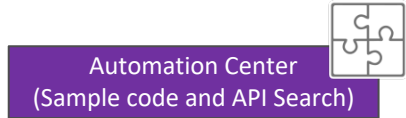
OASIS Open Command & Control



Enable machine-to-machine communications
Common language for SOC to command & control security controls

OpenSOC XDR Automation Center for Security Engineers

- Single entry for customer lookup automation use case, sample code and Product API detail usage.



Get Protected

Take the first steps towards automating industry leading protection. Learn how to automate the deployment and provisioning of Deep Security



Stay Secured

Let the Deep Security API empower your vulnerability risk management processes. Learn how to discover the security statuses of your computers to get a clear



Keep Informed

Get information about the state of the security health of your company for compliance auditors, SOC team members, and other internal stakeholders. Learn how

TODAY'S SOC

Monitoring of huge number of alerts

Management of individual events

Report generation to enable response

WHAT'S NEEDED?

Ability to more quickly detect and hunt for unknown threats

Total incident root cause and impact analysis

More automated and rapid threat response

HOW WILL WE HELP?

SMART:

AI-enabled prioritization of highest risk threats

OPTIMIZED:

Automated combination & correlation of threat information from across security layers

CONNECTED:

Orchestration and automation of response



THE ART OF CYBERSECURITY