



Boost the Efficiency of Your Security Operations

Chris Usserman, Principal Security Architect
Infoblox



Agenda

Operational challenges

Accelerating Incident Response

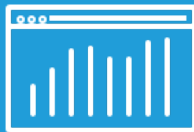
Improving SOC Efficiency



Operational Challenges



Siloed
security tools



Too many alerts/
too much noise



Cyber
security skills
shortage



Manual
investigation
processes



Business Disruptions are Costly and Impacts Brand



\$40M

Initial loss from a recent ransomware attack



\$119B

Wiped off from Facebook's market cap after Cambridge Analytica breach



196 DAYS

Average time to identify a breach

Sources: Ponemon Institute, The Guardian



Operational Challenges Continue to Mount

92%

of companies get more than 500 alerts per day; a single cyber analyst can handle only 10

8%

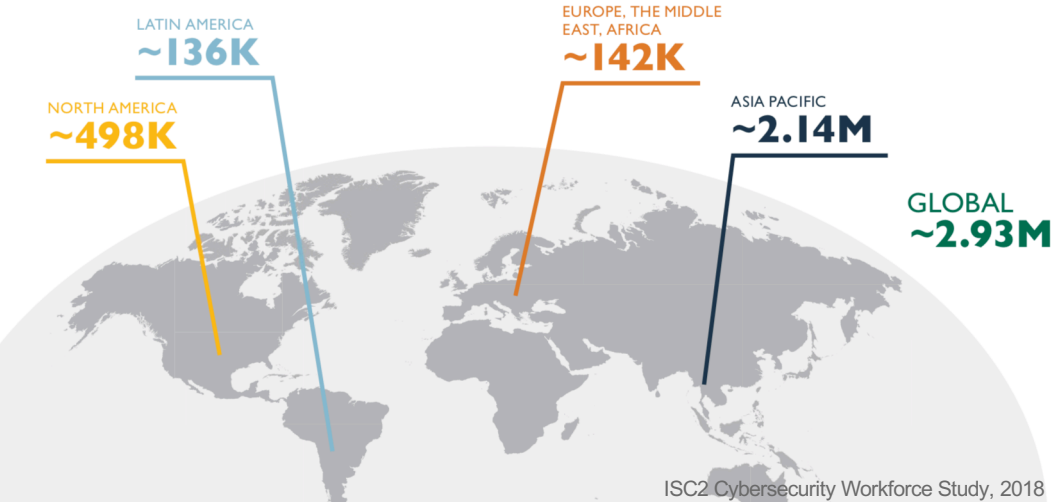
of alerts are investigated; not enough humans to keep organizations safe

30+

security tools in operation, with staff and expertise to manage 12

And We Can't Throw More People at the Problem

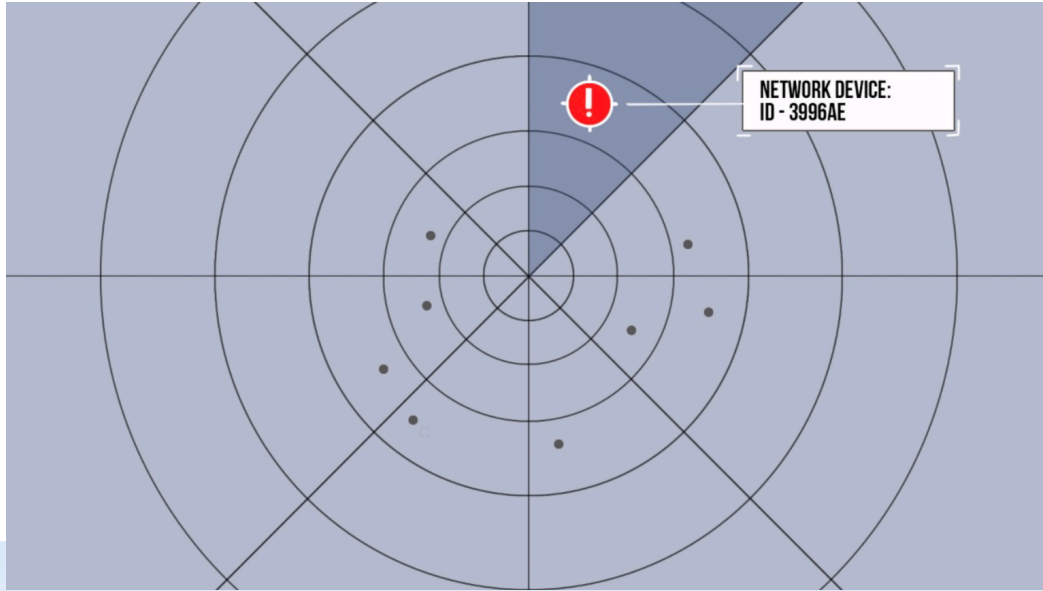
Gap in Cybersecurity Professionals by Region



ISC2 Cybersecurity Workforce Study, 2018



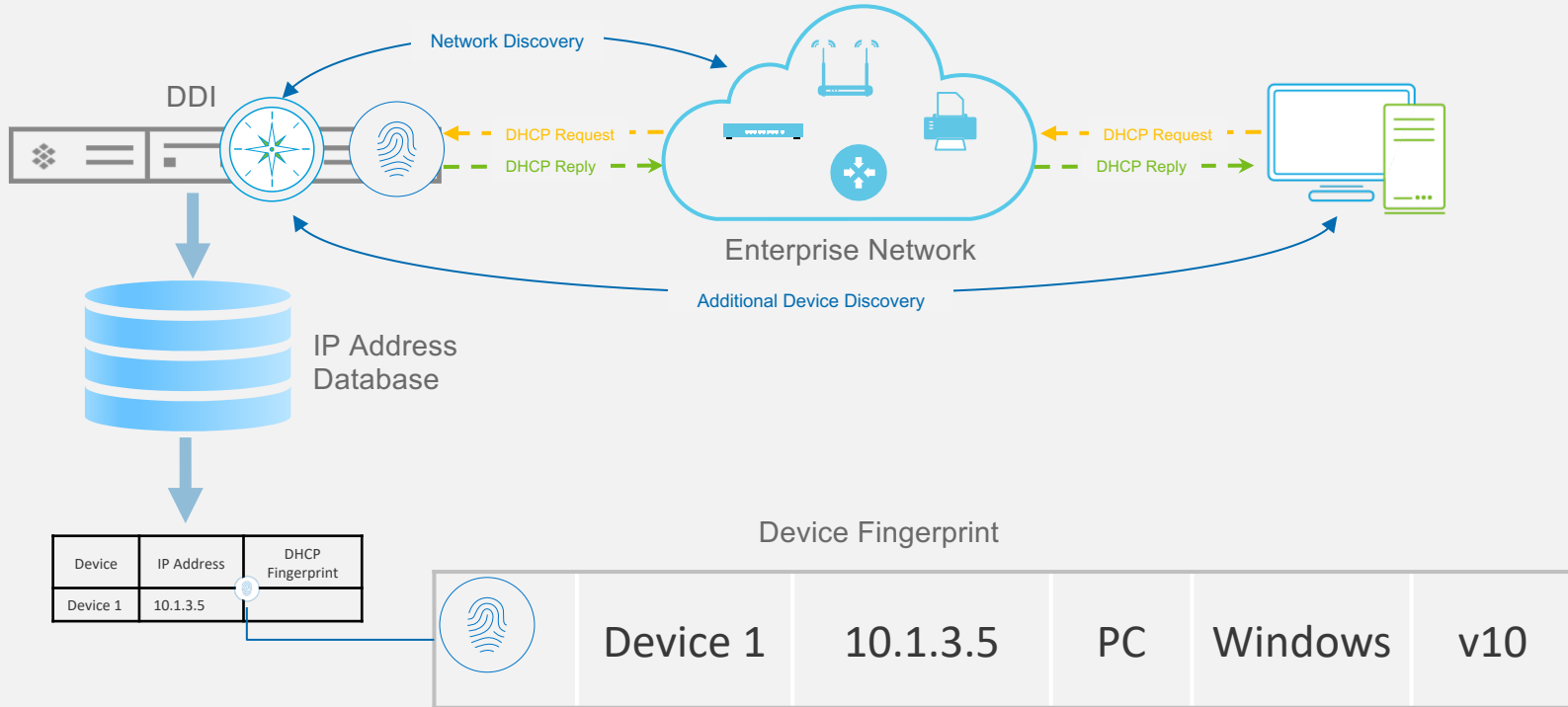
Visibility is Key for Security Operations



- Visibility that extends beyond the campus network (public cloud, IoT, roaming users, branch offices)
- Network context for efficient correlation
- Key datasets for making threat intelligence actionable



Gathering Device Data with DDI



DDI Meta-data for Entire Infrastructure

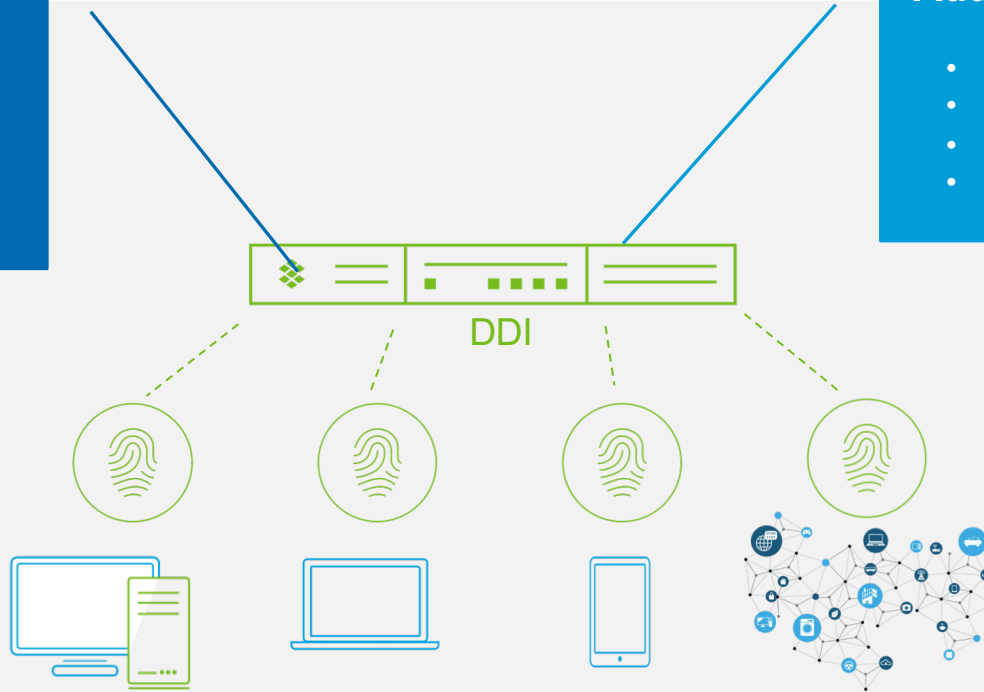
DHCP Discovery

- MAC Address
- Device type
- OS information
- Current IP
- Historical IP's and locations



Additional Discovery

- User details
- Network Location
- Physical location
- Network devices



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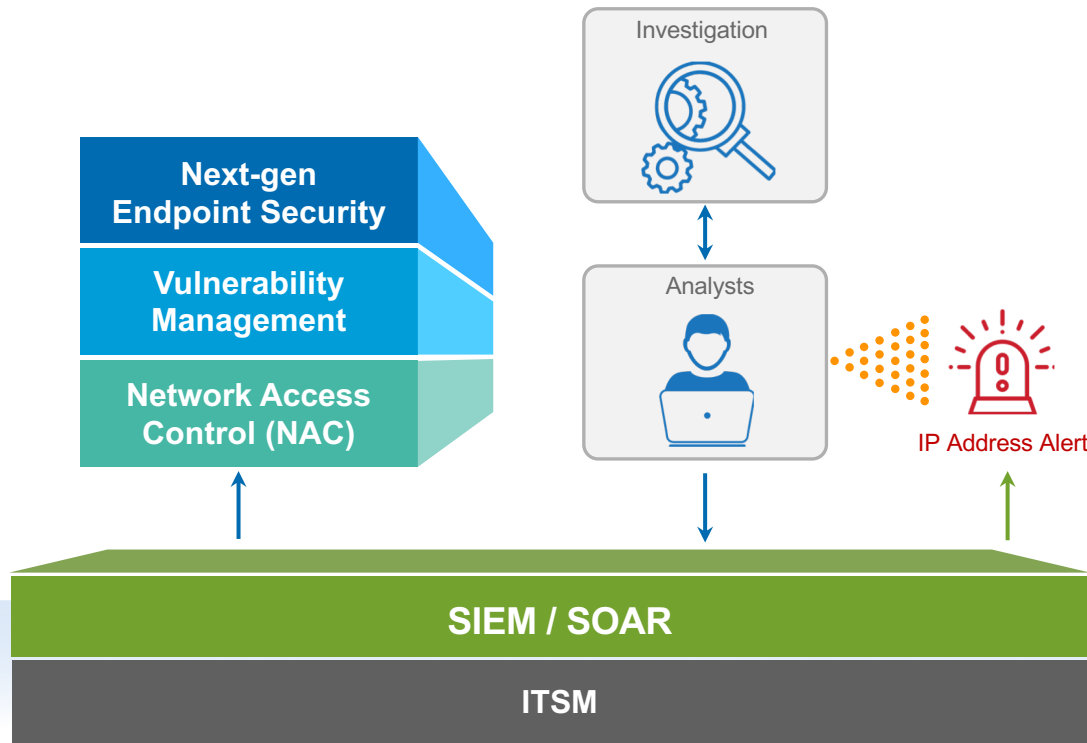
Improving SOC Efficiency



Typical Incident Response



Lengthy
Response Times



Manual Investigation

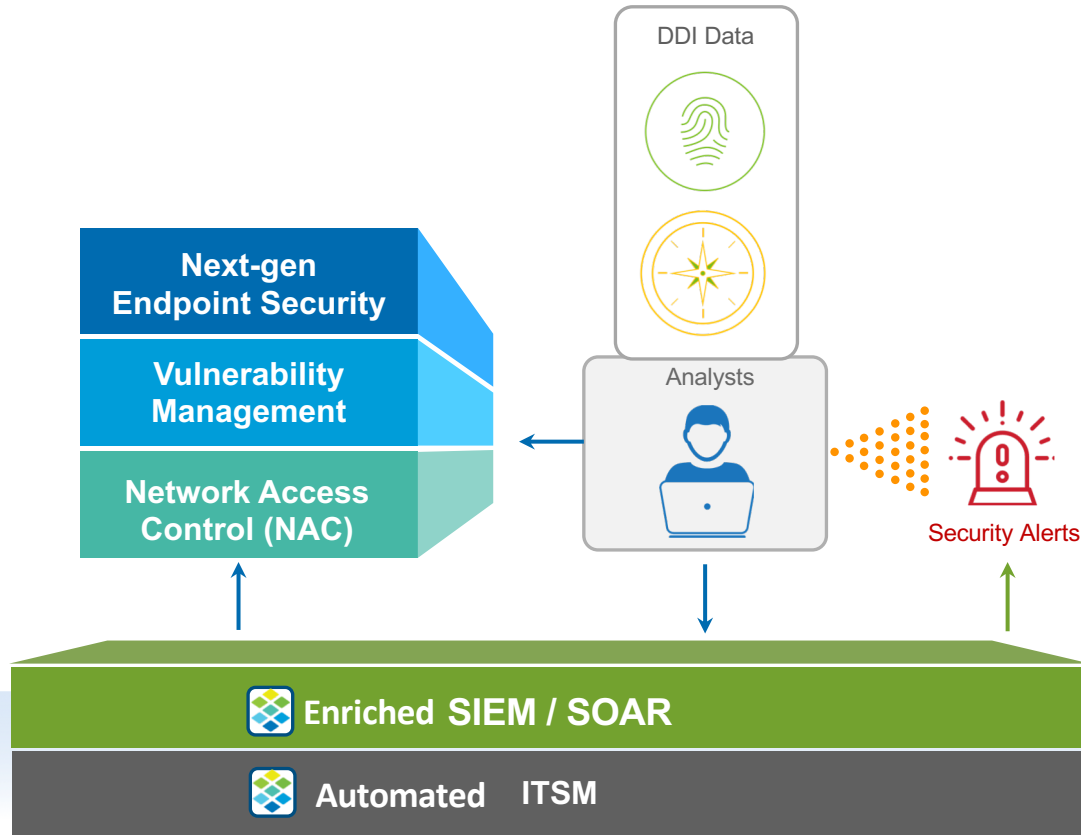
- MAC Address
- User details
- Network Location
- Physical location
- Network devices
- Device type
- OS information
- Current IP
- Historical IP's and locations



DDI Data Accelerates Incident Response



Lower
Response Times



DNS

- Malicious activity inside the security perimeter
- Includes BYOD and IoT device
- Profile device & user activity

DHCP

- Device Audit Trail and Fingerprinting
- Device info, MAC, lease history

IPAM

- Application and Business Context
- “Metadata” via Extended Attributes: Owner, app, security level, location, ticket number
 - Context for accurate risk assessment and event prioritization



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Value of DNS Data to a SIEM



- DDI data enriches events in a SIEM
- DNS query and response info provides insights into device activity
- However, sending all DNS query, response data could quickly overburden the SIEM



Cloud Managed Data Connector for SIEM Optimization

Data Connector gathers DDI data, filters out legitimate activity and sends suspicious event info to SIEM

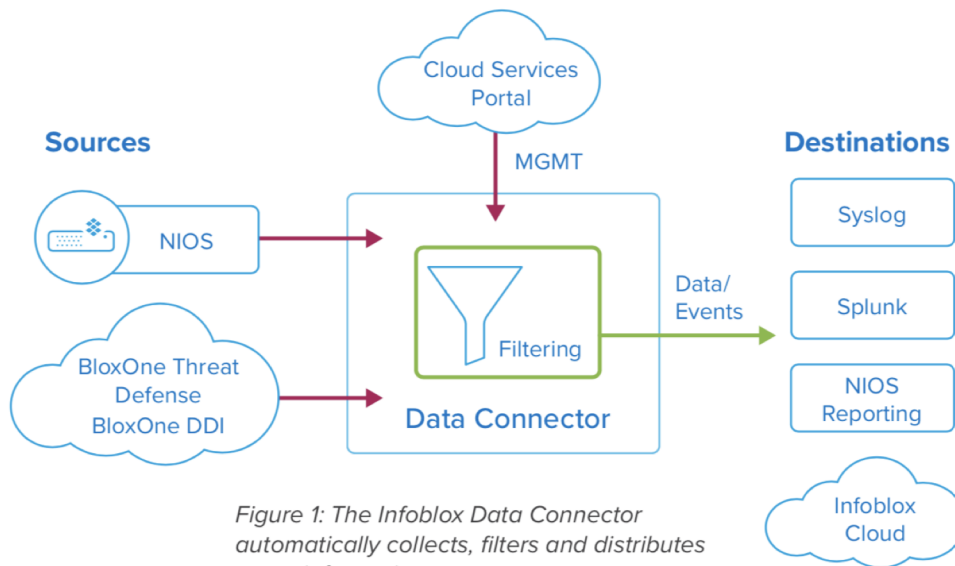


Figure 1: The Infoblox Data Connector automatically collects, filters and distributes event information

SOC teams can easily connect the dots when investigating incidents, while keeping costs low

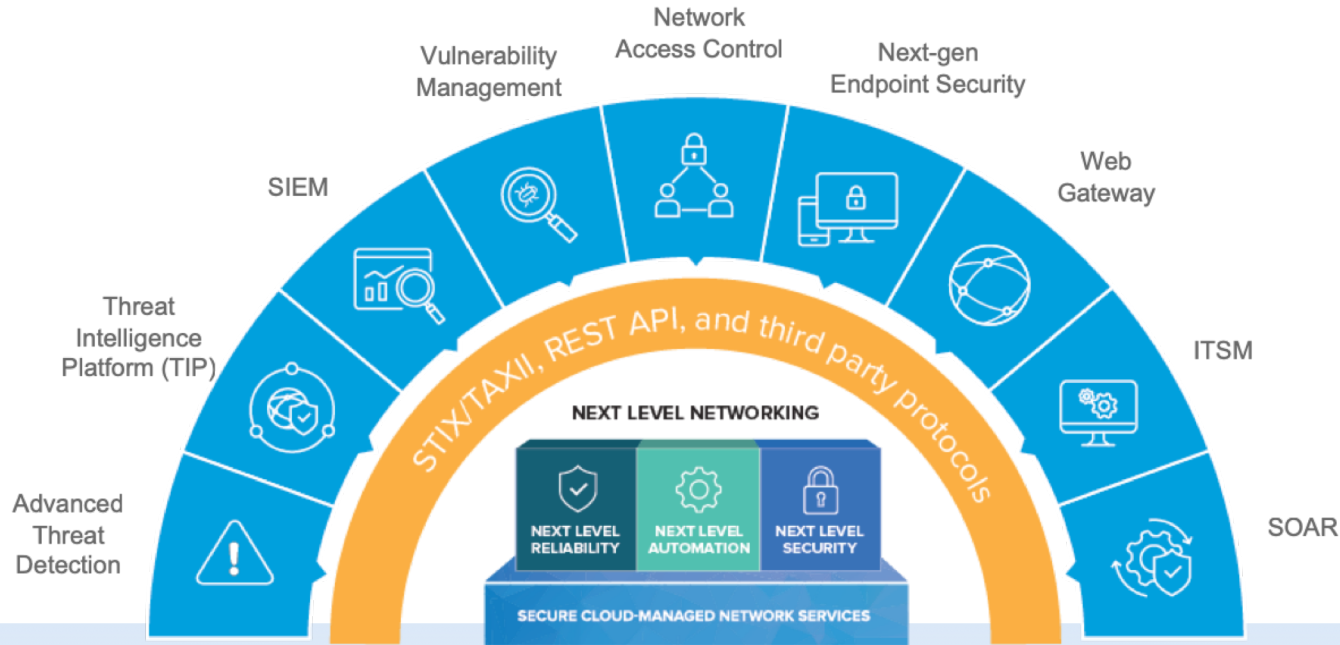


Bridging Silos with Security Orchestration

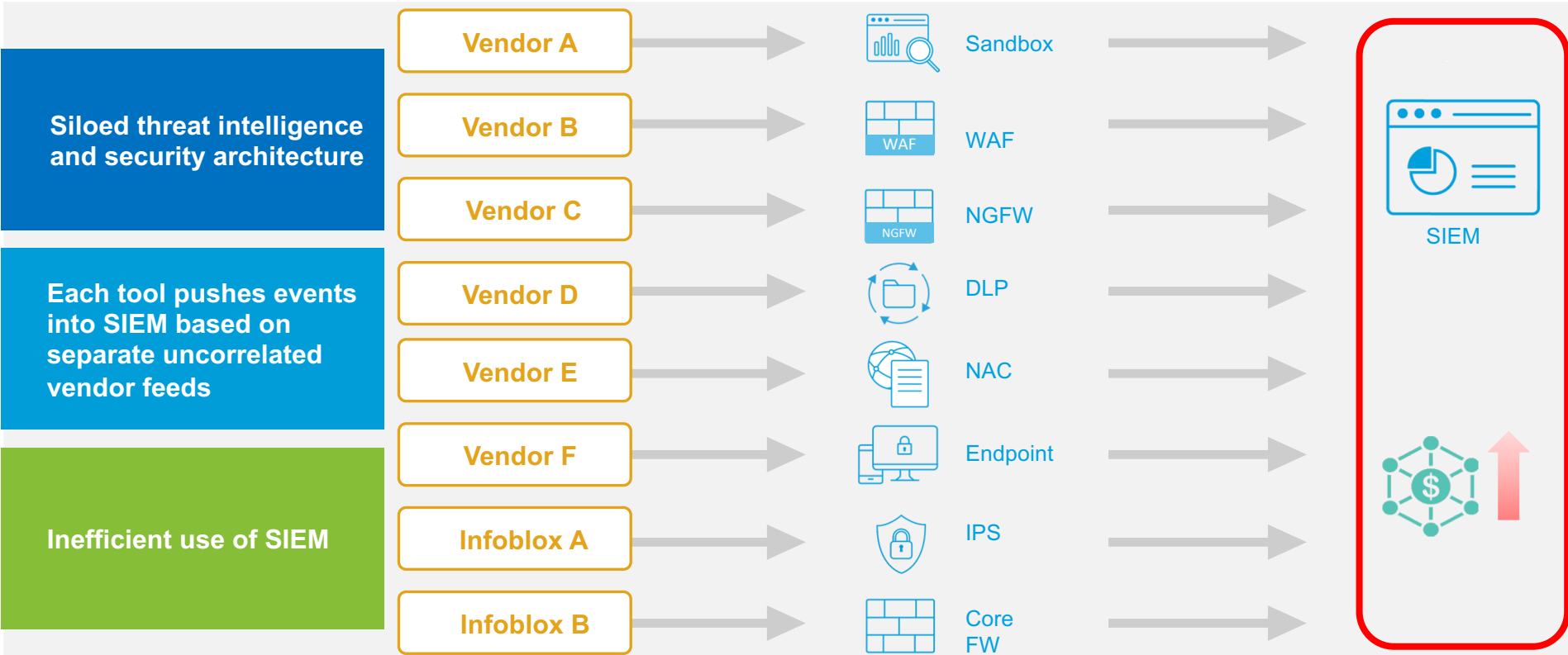
Network and threat context data to entire ecosystem

Automate network wide remediation

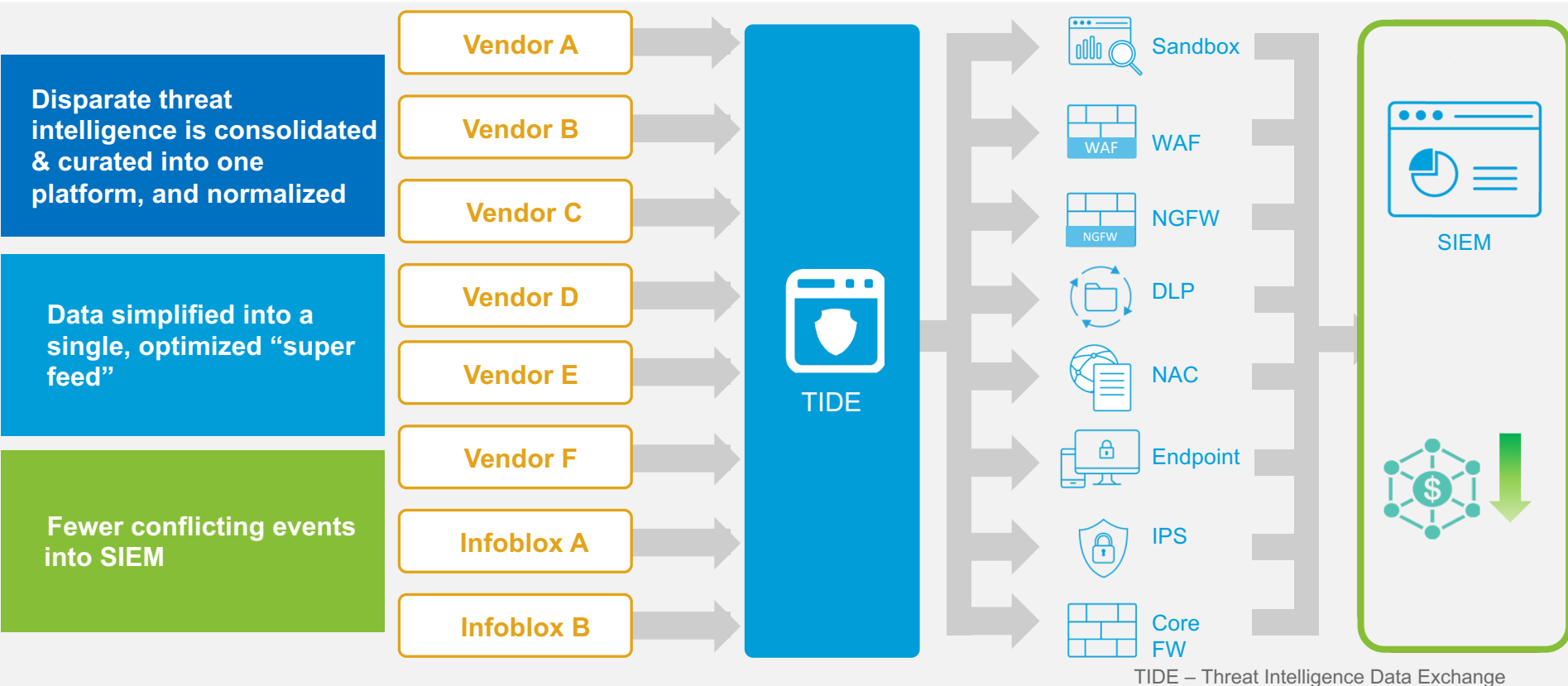
Improve ROI of security stack



SOC Inefficiencies




SIEM Optimization and SOC Efficiency Using TIDE*



TIDE – Threat Intelligence Data Exchange





Dossier for Faster Threat Investigation

badwerkad.top 

Reported by Infoblox, and ThreatTrackSecurity
First Reported on 4/20/2017 by Infoblox
Last Reported on 4/23/2018 by ThreatTrackSecurity

This Record Contains:

- DNS Count: 3
- Domain/Subdomain Count: 2
- URL Count: 3 
- IP Count: 3
- Positive File Detections: 8 
- Contacts: 3

This Record Also Contains:
[Indicator Info](#), [Timeline](#), [Domain Info](#), and [Reports](#)

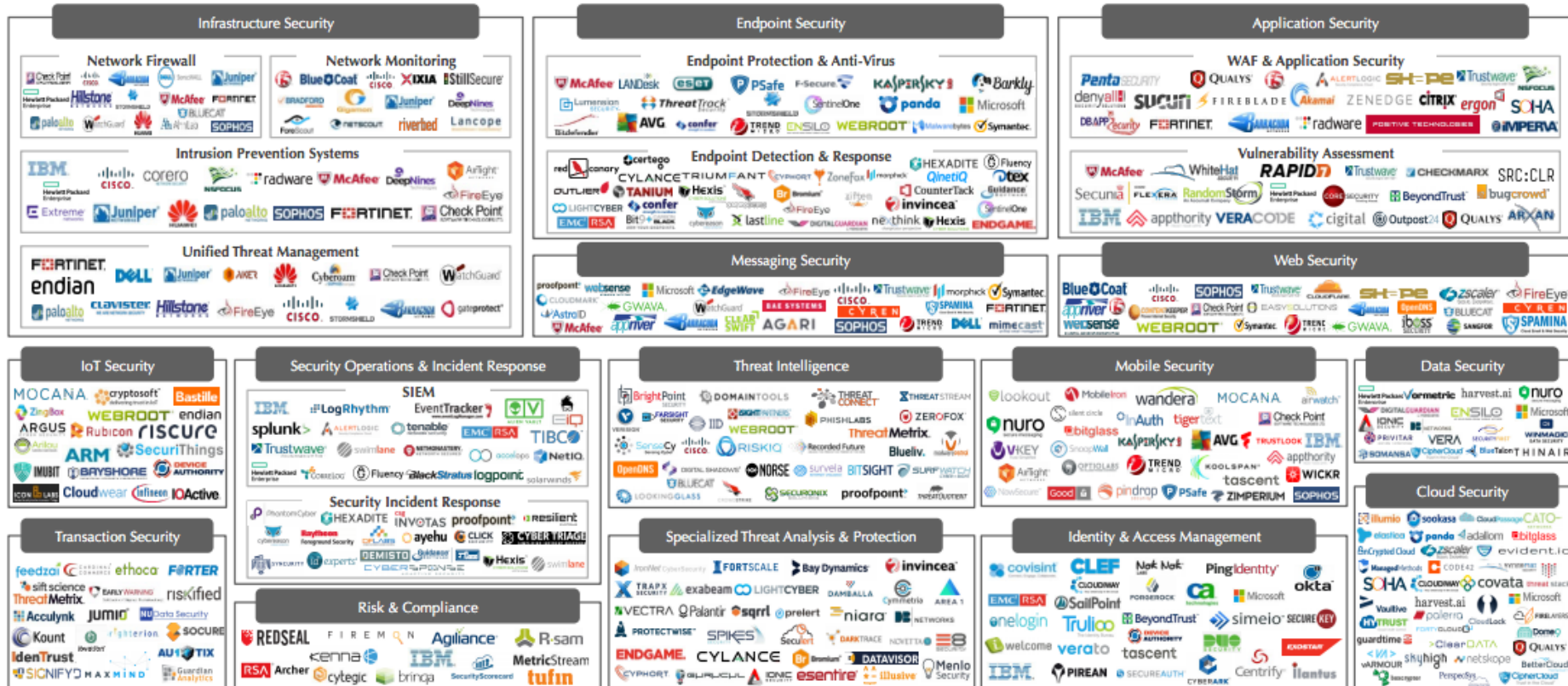
CATEGORIZATIONS	
Infoblox	MalwareDownload_Cerber
ThreatTrackSecurity	MalwareDownload_Generic
Forcepoint ThreatSeeker	compromised websites
Dr.Web	known infection source
Websense Threatseeker	compromised websites,known infection ...

WHOIS	
Created:	4/16/2017
Updated:	4/17/2018
Expires:	4/16/2019
Registrant Name:	asd
Email:	asda@gmail.com

- Adds more context for correlation
 - Multiple data sources in a single view
- Accelerates threat investigation (making linkages) and helps prioritize events (based on threat class or the scope of attack)



Security Landscape



Source: Momentum Partners.





For the second year, Lucky Strike B-A-R Honda brings you its 00E Formula One car stripped bare. From recognisable components such as the front and rear wings and the wheels right down to the electrical assembly systems and engine management controls, B-A-R presents you with the picture you want to see. For more information on the B-A-R Honda 00E visit:

BARf1.com

Key components

- 1 Front wing/nose assembly
- 2 Monocoque
- 3 Mirror assembly
- 4 Honda V10 engine
- 5 Exhaust system
- 6 Hydraulic plate assembly
- 7 Clutch actuator assembly
- 8 Gearbox assembly
- 9 Rear impact structure
- 10 Rear wing assembly
- 11 Fuel tank
- 12 Headrest
- 13 Steering wheel
- 14 Radiator duct assembly
- 15 Engine covers/side pods
- 16 Drivers seat
- 17 Bargeboard
- 18 Lower front wishbone
- 19 Top front wishbone
- 20 Front brake ducts
- 21 Steering rack assembly
- 22 Front suspension damper
- 23 Front bushrod
- 24 Lower rear wishbone
- 25 Top rear wishbone
- 26 Rear pushrod
- 27 Rear trackrod
- 28 Driveshaft
- 29 Brake disc assembly
- 30 Brake caliper
- 31 BES wheels with Bridgestone tyres
- 32 Water radiator
- 33 Oil tank assembly
- 34 Main electrical harness
- 35 Airbox and air filter
- 36 Left-hand electrical assembly
- 37 Fire extinguisher
- 38 Oil cooler
- 39 Plank
- 40 Main foot assembly with diffuser
- 41 Splitter assembly
- 42 Engine management controller
- 43 Battery
- 44 Steering column
- 45 Throttle and brake pedal assembly
- 46 Rear brake ducts
- 47 Wheel nut
- 48 Damper cover
- 49 Engine heatshields
- 50 Seat belt
- 51 Camera
- 52 Airspring
- 53 Front anti roll bar

Components of Mature Cyber Security Program

Actionable Network Intelligence (IT)

+

Actionable Threat Intelligence (Security)

+

Informed Ecosystem

=

Holistic and Mature Cyber Security Program





Customer Story: US Technology Company

Customer Use Case:

- Analysts typically spent 1 hour evaluating incidents
- 40 minutes spent gathering data from multiple sources

Solution: Infoblox Dossier

Outcomes:

- Infoblox reduced time it took to investigate incidents / eliminated wasted time
- Improved operational efficiency



Summary

Boost Efficiency of Security Operations



DDI can provide ubiquitous visibility across your entire network

DDI data can help accelerate incident response

Threat intelligence optimization can help make your SOC more efficient



Q & A



Demo: Aproveche la Infraestructura de Seguridad Existente para Automatizar y Mejorar la Detección de Amenazas y Acelerar la Remediación

Francisco Osornio, Senior Systems Engineer
Infoblox



Q & A



Customer Panel



Heber Camarillo
Banregio
Chief Cybersecurity
Architect



Victor Mejia
Bestel
Director of Sales &
Security Operations



Hugo Suarez
Grupo Salinas
Manager DNS Services



Jorge Lozoya Arandia
Services Operations
Coordinator
University of Guadalajara

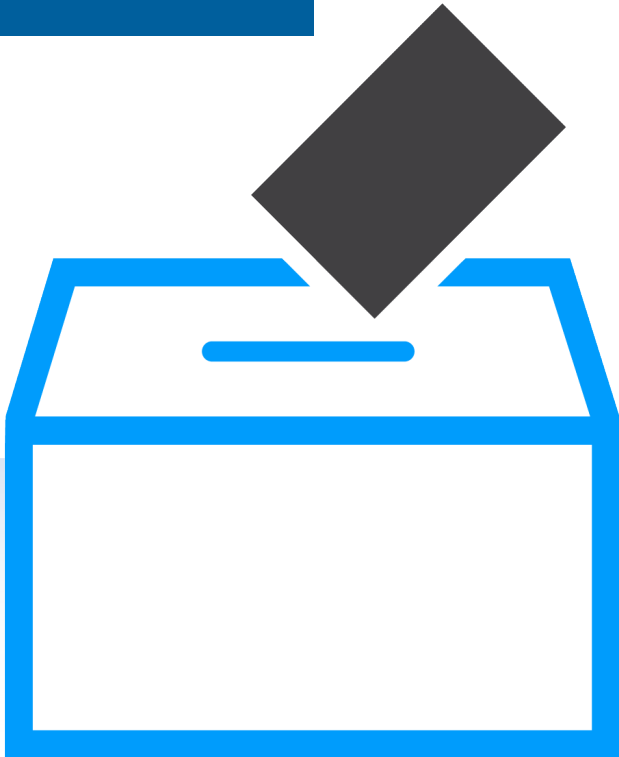


CLAUSURA Y CONCLUSIONES



Infoblox Exchange

SECURITY ROADSHOW



Por favor complete su formulario de comentarios para tener la oportunidad de ganar un casco de realidad virtual Oculus Go



Infoblox Exchange

SECURITY ROADSHOW

23 ROAD SHOW LOCATIONS

North America | Europe | Middle East/Africa | Asia-Pacific



MUCHAS GRACIAS!

