



The Inevitable Cyber Attack: *From Observation to Remedial Action and Minimizing Dwell Time” In-between*

Presenter

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A background image of a Security Operations Center (SOC) with multiple operators at desks, each with several computer monitors displaying various data visualizations like bar charts, line graphs, and network maps. The room is dimly lit with blue ambient lighting from the screens.

A Security Operations Center is a **Highly Skilled** team following **Well-Defined Definitions and Processes** to **Manage Threats and Reduce Security Risk**

Haider Pasha, CISSP, C|EH
Chief Technology Officer
Emerging Markets

Key Security Challenges

Security Operations Center



CONCERNS

Scaling for Growth

Data Protection & Compliance

Limited Cyber Security Threat Intelligence & Analytics

SOC Implementation Methodology



REQUIREMENTS

Outsource vs. Co-Source of Security Operations

Enhancing Visibility

Governance & Control

Proactive Threat Detection, Prevention, & Response



SOC FOCUS

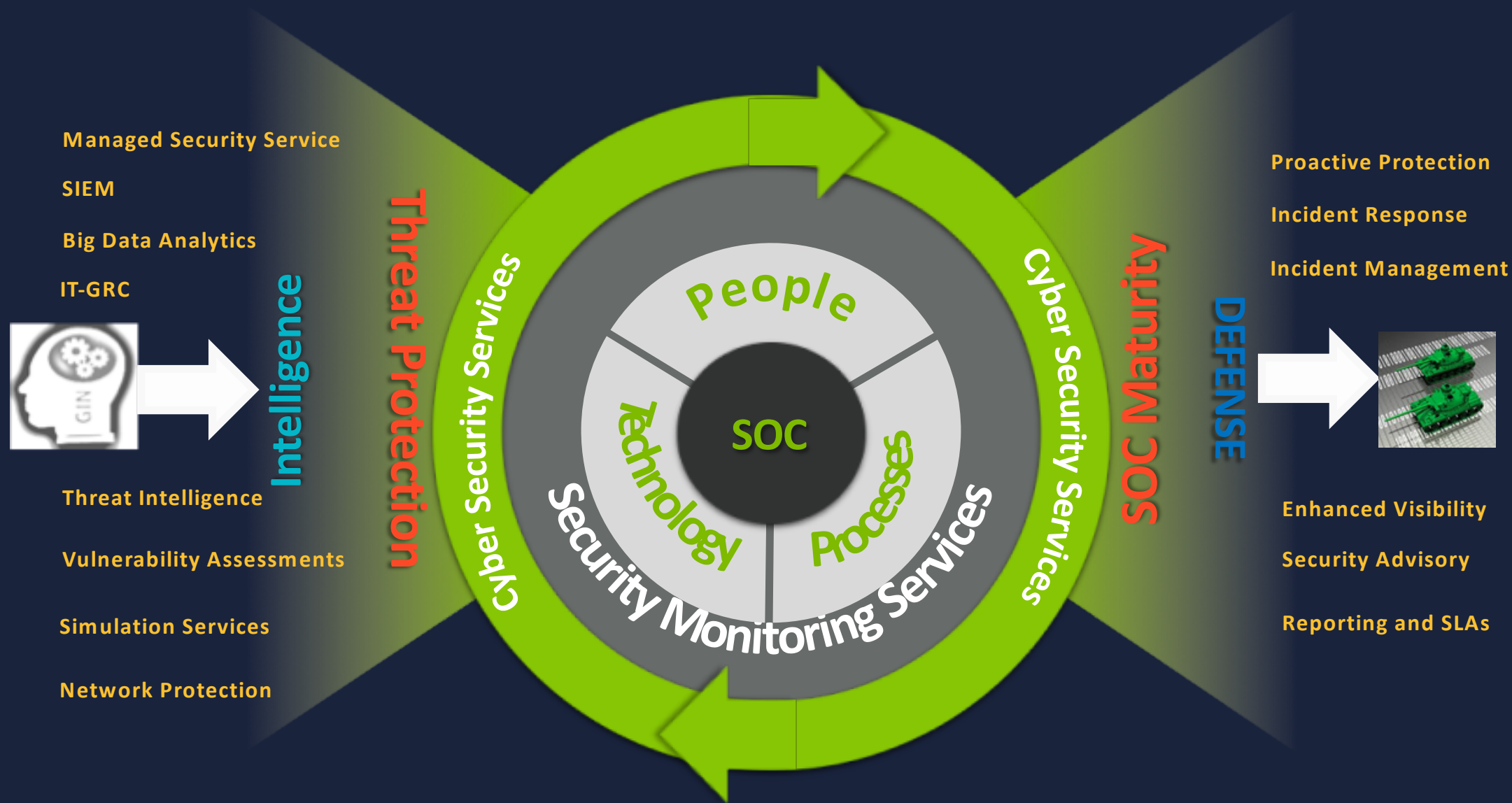
Threat Protection

Threat Monitoring and Operations

Intelligence & Incident Response

Security Analytics

SOC Vision



Security Management Consideration

Insourcing

Cost

High CAPEX
Variable OPEX

Control

Internal Team Knows Environment
Potentially Most Efficient
Complex to Manage

Time

People Recruitment, Tools Procurement &
Configuration

Staff

Hard to Acquire, Retain, Train

Risk

High Risk – Mitigated with Augmentation
Assigned to End-User

Outsourcing

Cost

Low CAPEX
Predictive OPEX

Control

Lack of Environment Knowledge by 3rd Party
SLA Based Services
Difficult to Terminate / Change

Time

Handover, Service Definition and SLA
Measurement

Staff

3rd Party Responsibility

Risk

Medium Risk
Assigned to the Provider

Co-sourcing

Cost

Moderate CAPEX
Predictive OPEX

Control

Benefits of Local Knowledge and 3rd Party
Expertise
Partial SLA Service
Flexible Future Change

Time

Blended Approach

Staff

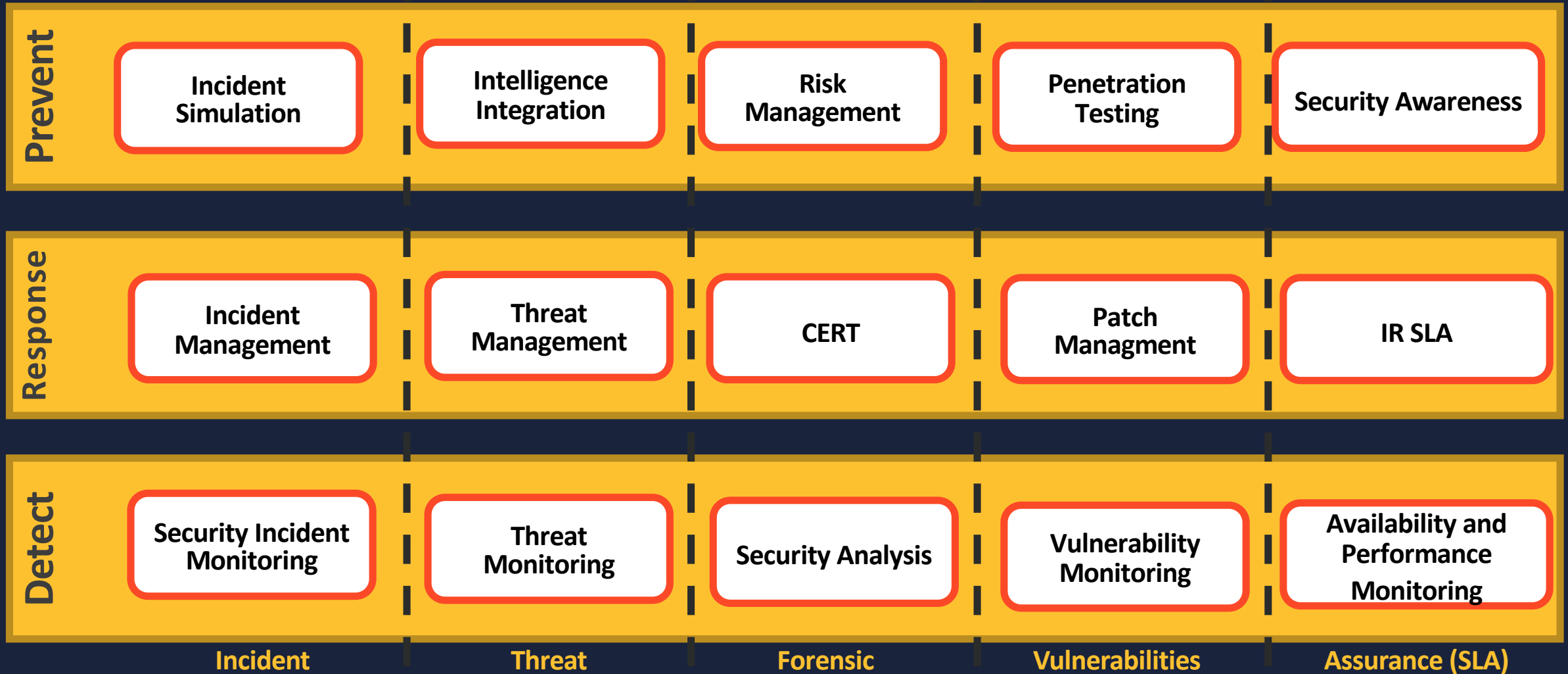
Staff Augmentation

Risk

Lowest Risk;
Shared Between Companies

Process

SOC Framework Best Practice



SOC Methodology

Conduct health-check and preventive maintenance for all security systems

Implement new Security Policy on the managed devices following the agreed process

Perform Change & Configuration Management through RFC&MDT process



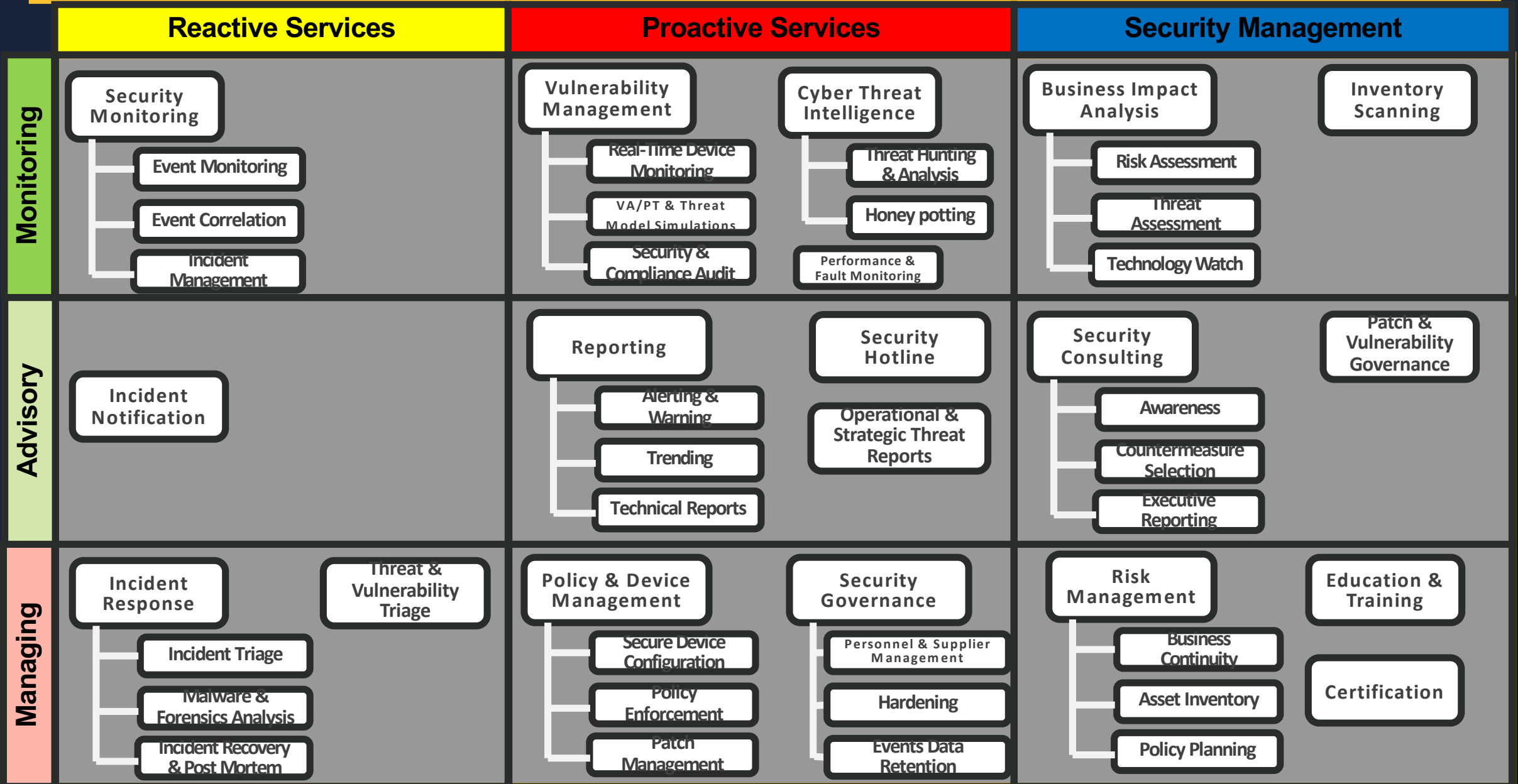
Analyze Security Systems logs for any security threats and take proper action accordingly

Provide 1st & 2nd level of support for the security incidents

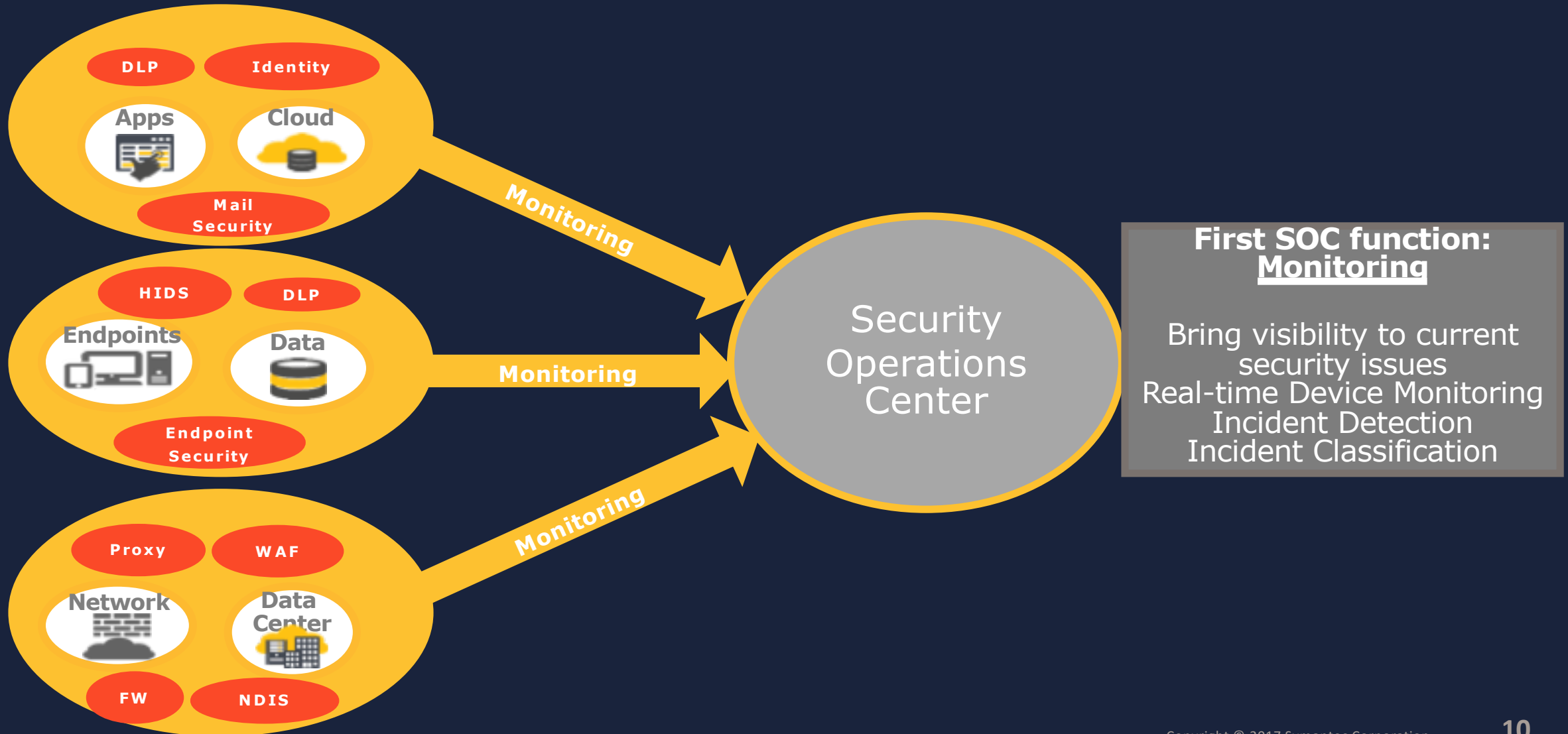
Supporting other Security departments during the incident handling process

SOC Service Catalog

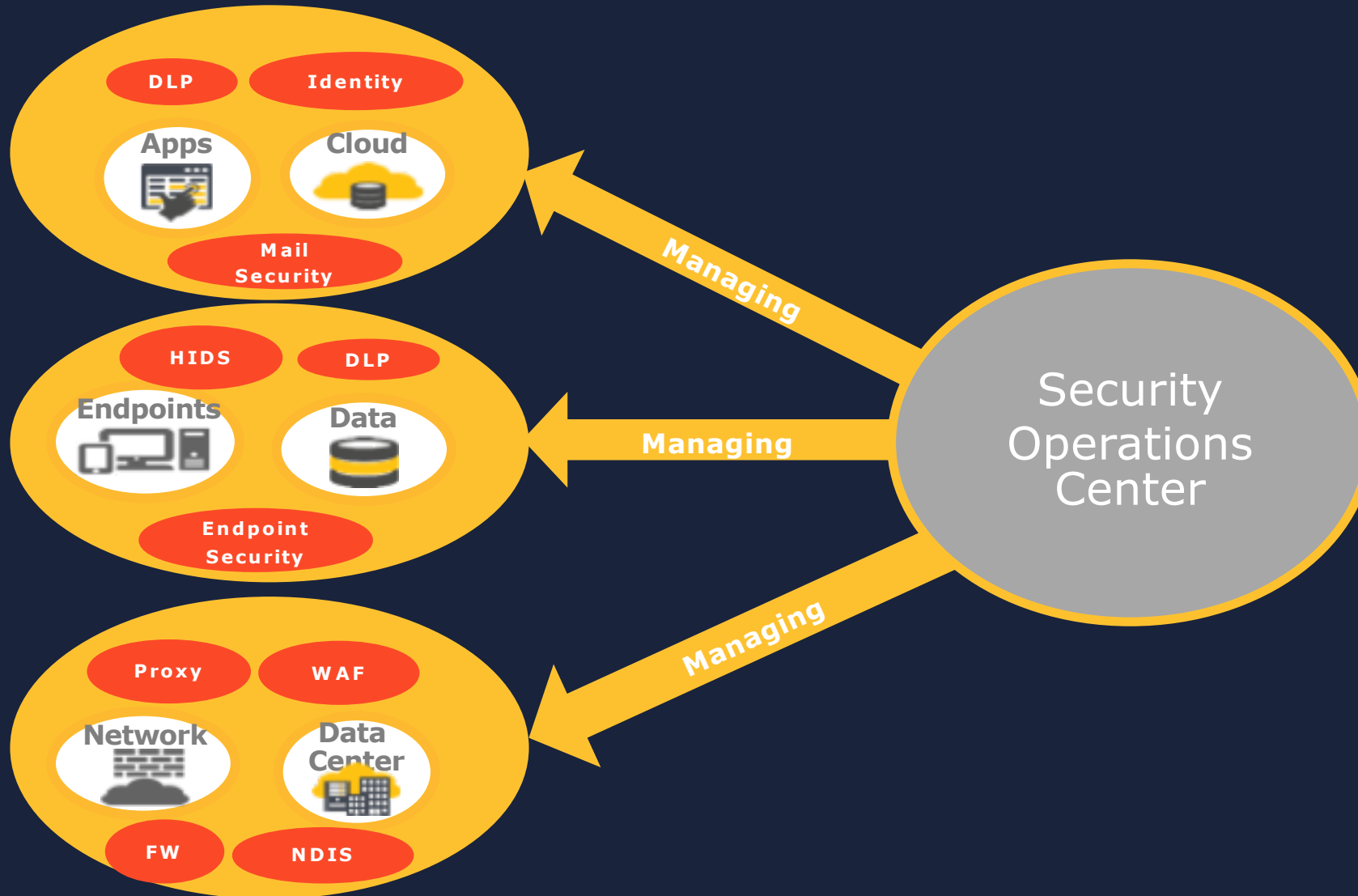
"Define your security services menu"



A Simplified View



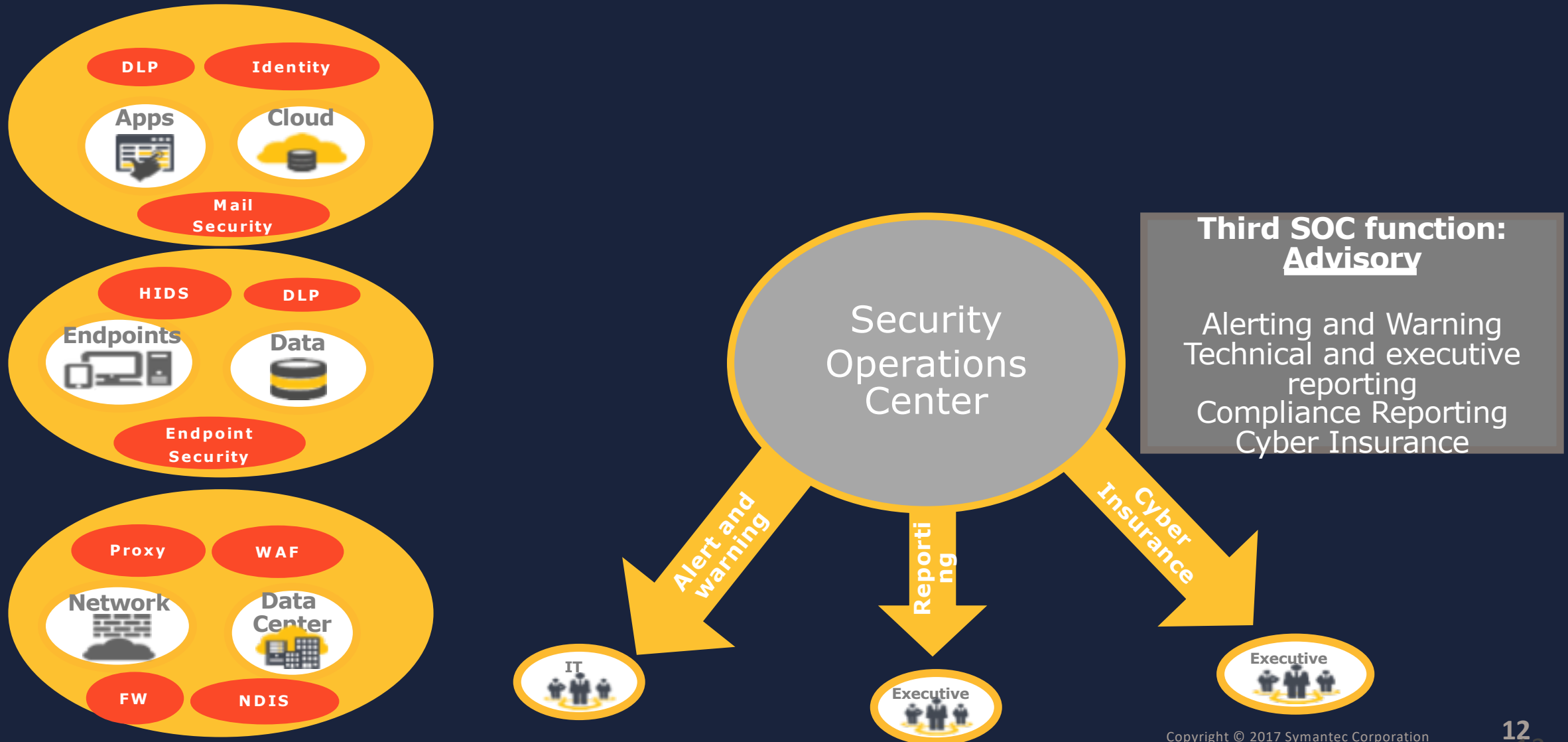
A Simplified View



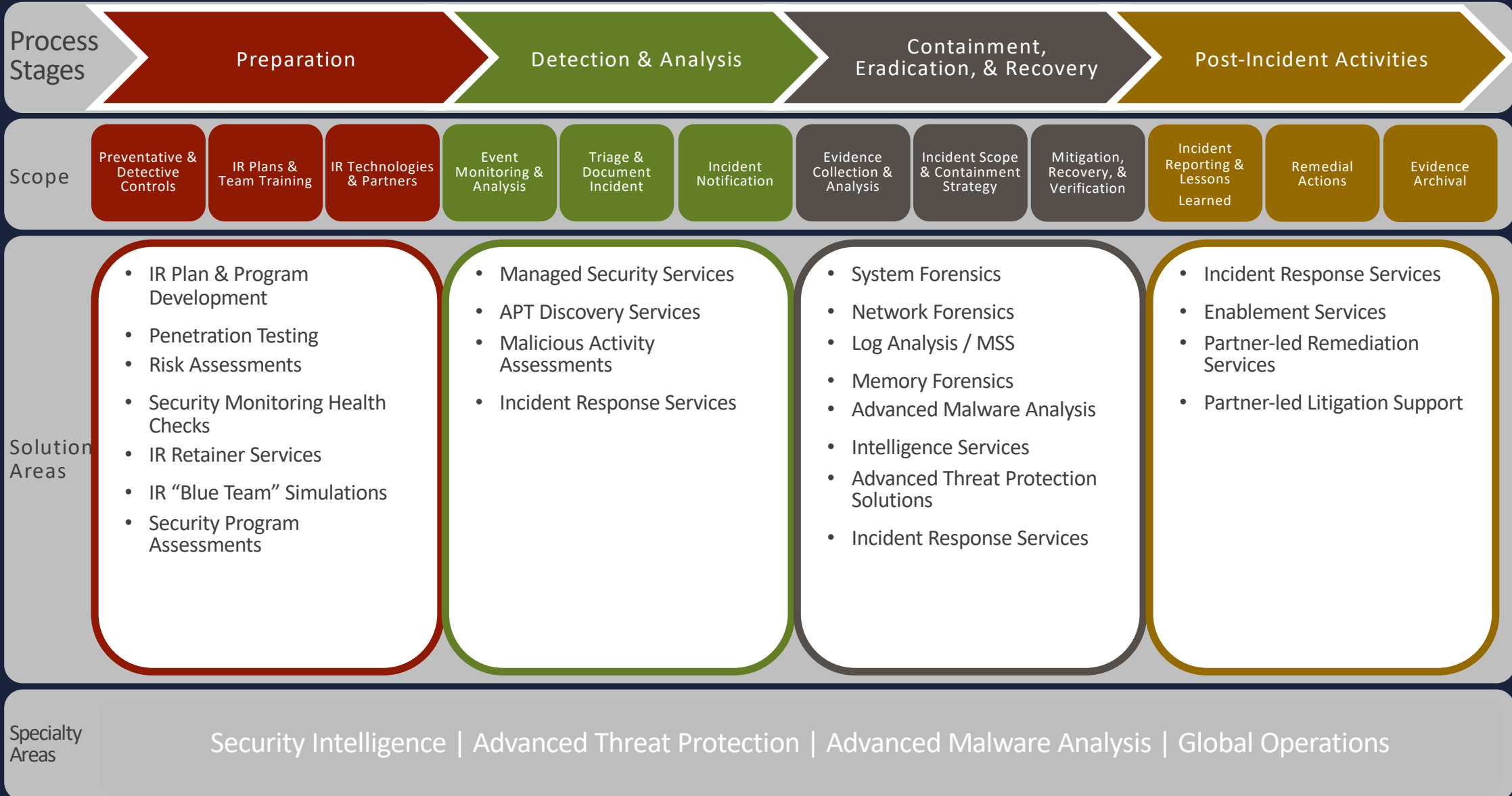
Second SOC function: Managing

Policy Management
Policy Enforcement
Incident Remediation
Managed Network Security
Managed Endpoint
Managed Messaging
Advanced Threat Protection
Risk Management
Cyber Resilience

A Simplified View



Incident Response Process Framework



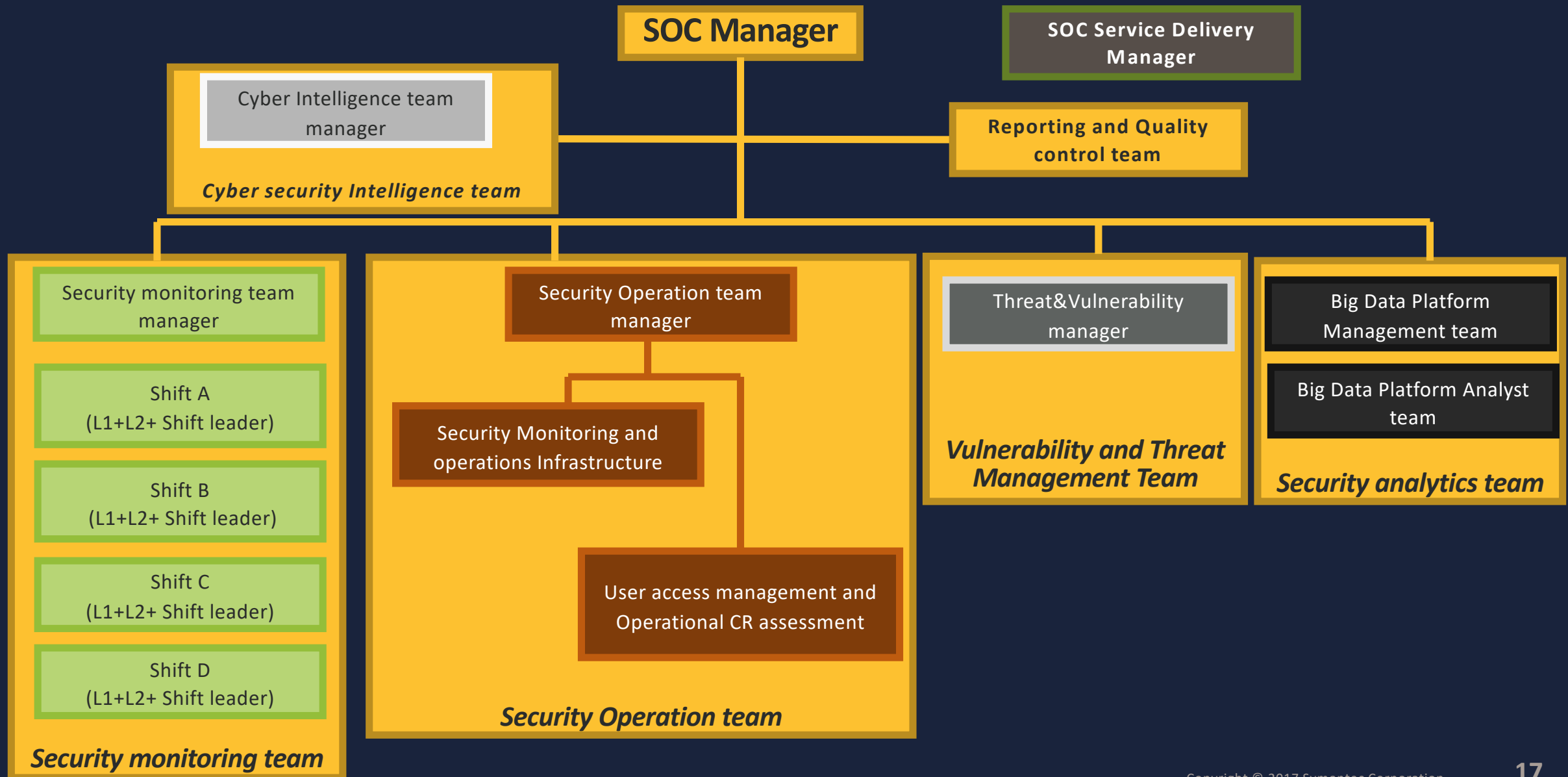
Incident Handling Methodology



People

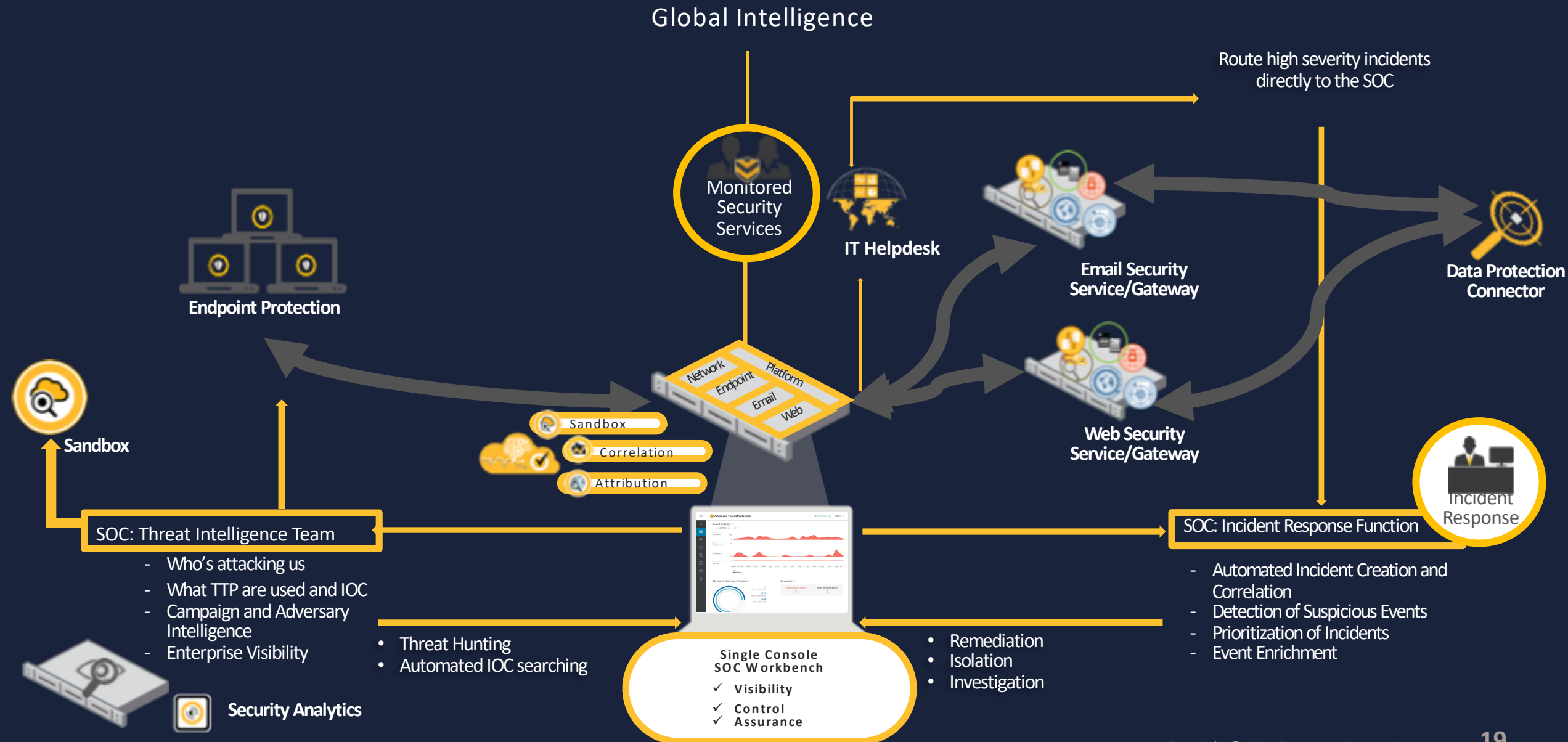


Typical SOC Team Structure

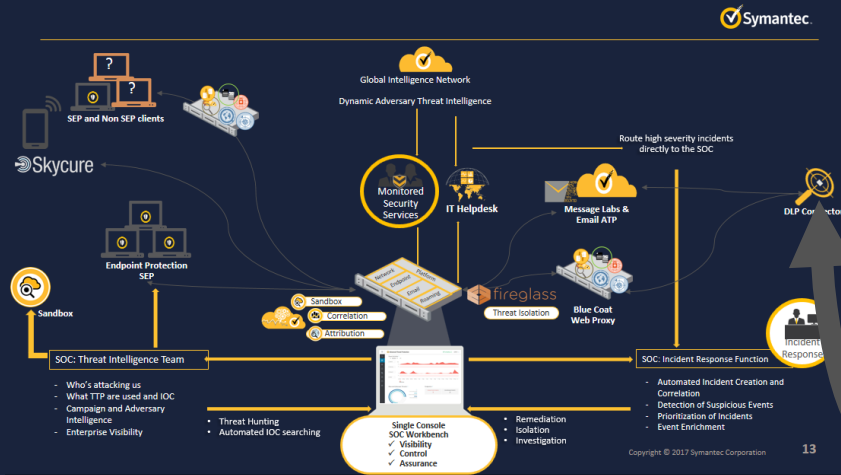


Technology

Integrated Threat Protection: SOC Workbench



Integrated Information Protection: SOC Workbench



Integrated Information Protection Controls

Shadow IT Visibility & Control

Tagging & Encryption

Identity & Authentication

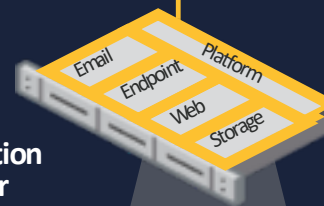
Data Protection: Incident Response Function

- Automated Incident Creation
- Universal policy deployment
- Single enforce platform

- Remediation
- Investigation

Data Protection Connector

IT Helpdesk



Single Data Protection Console

- ✓ Visibility
- ✓ Control
- ✓ Assurance

Corporate SaaS Apps



CASB

Email

Email Security Service (SMTP)

Web & Internet

Web Proxy

Data at Rest

Endpoint

- Each SOC project is a journey. Get the required buy in.
 - *Projects require a considerable amount of time and money.*
- Hybrid approach can massively speed up the time to service delivery.
 - *Consider adopting an MSSP even as a temporary solution*
- Define Service Catalog Carefully.
- Implement baby steps: do few things well.
 - *Do not oversell SOC mission and implement the basics right.*
- Do not ingest any data: clearly define your use cases.
- Get the right staff in place.
 - *Motivate them, motivate them, motivate them.*

