

# Come rilevare un incidente di sicurezza: il Security Operation Center (SOC)

Esperienza di implementazione in una azienda multinazionale

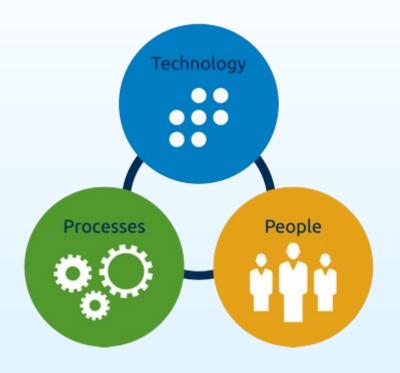
# Group Information security master plan 2017 – 2019 Budget

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Capability Domain	Macro- Initiatives	Objective	2017 (K€)		2018 (K€)		2019 (K€)	
			Inf. Sec.	IT Security	Inf. Sec.	IT Security	Inf. Sec.	IT Security
Governance	G.1 - Information security steering improvement	Ensure clear strategic direction on information security at group level through a clear and effective organization, policies, risk management process and vendor management						
	G.2 - Information security competencies & monitoring capabilities improvement	Develop adequate information security capabilities as well as monitoring at group level						
Prevent	P.1 - Data protection enhancement	Protect most critical Company's information during their entire lifecycle						
	P.2 - Access and authentication improvement	Ensure an effective management of identities and access to critical company data and critical operations		Model SOC Implement SIEM ation and				
	P.3 - Applications Security Improvement	Ensure a secure development of applications as well as improve security of the critical ones	Stud					
	P.4 - Infrastructure Security improvement	Improve protection against malware, unauthorized access, misuse or modification of network-accessible resources.	\	uation	X	run		run
Detection & Response	D.1 – Security Operation Center Implementation	Ensure the effective detection and analysis of security events, an adequate response to them						
	D.2 – Crisis & Continuity Improvement	Ensure the recovery after major security incidents						
	D.3 – Threat Management Improvement	Ensure the effective management of cyber threats as part of the wider monitoring and incident detection / brand protection processes						

## Security Information and Event Management

#### **Desired Target:**

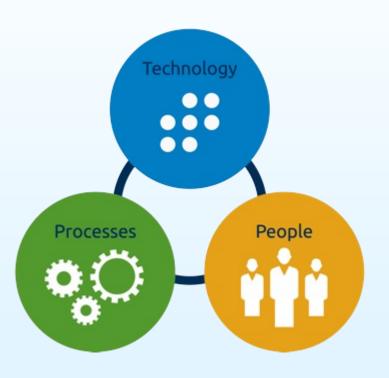
- SIEM Tool Selection Options:
  - Splunk
  - HP ArcSight
  - IBM Qradar
  - Logrythm
- · Proper SIEM tool selection
  - Must be a globally scalable solution
  - Must be able to deliver in first year
  - Must support cloud operations as well as on premise
  - Must be able to provide real time alerting
  - Must be able to be supported by internal, and also by a MSS if desired
- Solution must be flexible to accommodate the Company diversified administrative model, and work with the future incident response process.



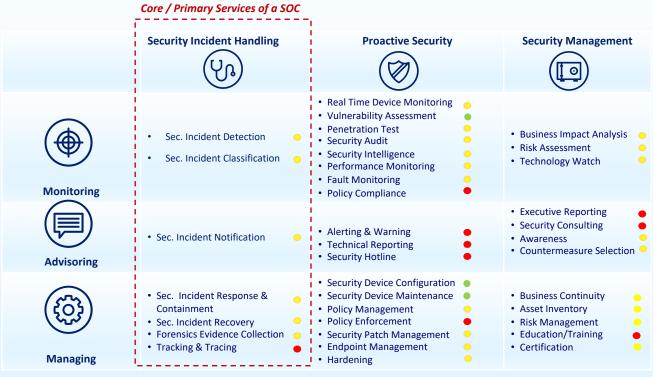
### **Security Operation Center**

#### Consideration

- Technology (Tools)
  - Utilizing existing Splunk structure as SIEM, expand as necessary,
  - Evaluate Cloud as possible Hybrid Solution for Splunk, quicker to stand up
  - Review internal tools
- People
  - Vendor MSS
    - Leverage vendor resources (tools / staff / knowledge) to cover key Group locations
  - Staffing:
    - Use North America IT Security as initial COE leverage existing staff, tools, approach to initiate SOC
    - · Leverage vendor staff to follow the sun
  - Vendor needs to offer more than just staff augmentation
    - must aide in identification, escalation and remediation activities to be effective (part of incident management not just ticketing approach)
- Processes
  - Develop policies, processes and observe impact
  - Evaluate over time how COE should be managed in a more mature environment
  - Approach would balance internal and external expertise to achieve SOC Model goals



# A SOC can perform an extensive set of security services – the core part is the incident handling



Please note that management of traditional IT Incidents (not Security related – e.g. Computing / Disk Resource Constraints or Failure, Network Issues, Application Bugs, etc.) are not in scope of SOC perimeter

29/03/22

## We are looking for a vendor to help us in:



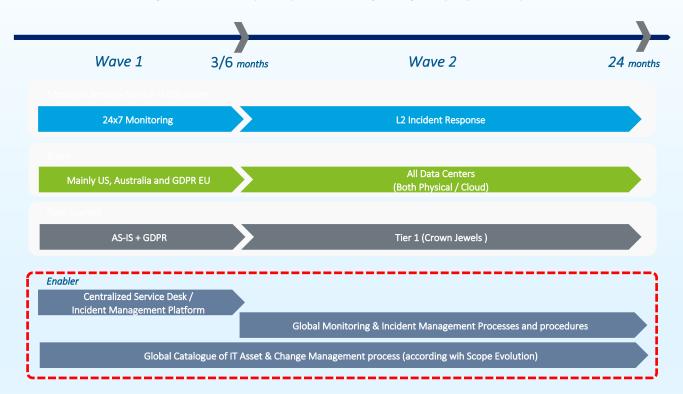


<sup>1</sup>SIEM: security information and event management

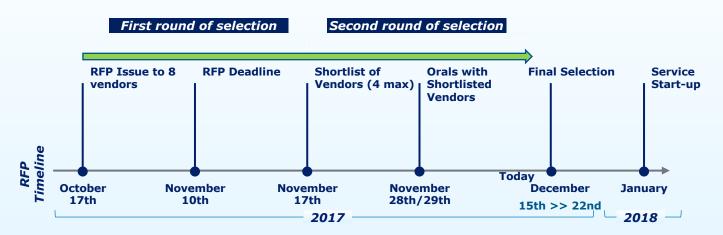
<sup>2</sup>IDS/IPS: Intrusion Detection & Prevention Systems

#### **POSSIBLE TIMELINE IMPLEMENTATION:**

Build a 24/7 monitoring and incident response process while growing Company SIEM capabilities



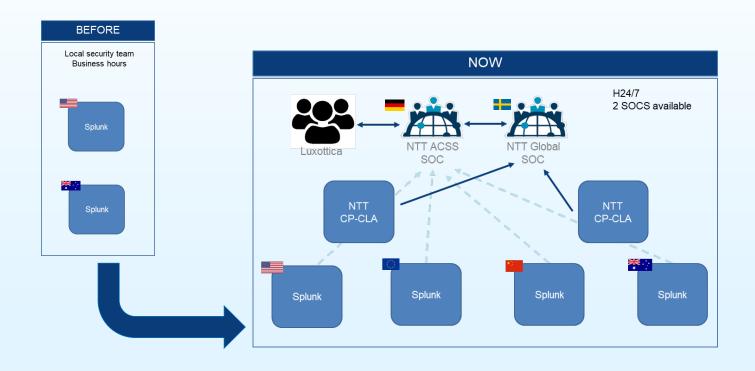
# It has been issued an rfp organized according to a two round process - the economic effort for will be significant



#### **Invited Vendors**

- AT&T
- Capgemini
- Symantec (Sinergy presented the tender)
- FireEye
- Leonardo
- Deloitte
- Binary Defense (TRUSTEDSEC, LLC)
- DELL as SecureWorks
- NTT

### **OVERALL ARCHITECTURE**



#### SECURITY OPERATION CENTER

In a world of new technology based on growing importance of data and data processing, Company decided to establish a SOC as center to manage, control and proactively monitor security in a centralized and global manner



- Manage Splunk Data standardized over 4 regions
- Establish Global Threat Detection
- SOC service to identify and analyze critical incidents
- Incident Response global process
- Alignment weekly call
- Acceleration workshops (Agordo and two in Mason)
- Cyber-Defense-Platform to handle security cases
- Activated base ticketing portal (based on RSA Archer) for tracking incidents



- GDPR use-cases and device integration
- Integrated incident management process (ref ServiceNow initiative)
- GDPR Dashboard
- China under deploy stage
- Logs forwarding for critical environments



- Global Incident Response workshop
- Splunk version up-grade
- Splunk use cases extension
- Collect via ATP the alerts to improve the remediation

# Grazie