

ENTERPRISE INFORMATION SECURITY TEAMS



Old School

VS

STATE OF THE ART

MISSION

Concentrates on conventional security activities such as:

- Developing policy
- Implementing and operating security controls



Shifts focus to business-centric and advanced technical activities such as:

- Business risk analysis
- Asset valuation
- IT supply chain integrity
- Cyber threat intelligence
- Security data analytics
- Data warehousing
- Process optimization



EXPERTISE

IT professionals with security skills



Multidisciplinary group of specialists with diverse business leadership and technical skills



FOCUS

Focuses on reactive and day-to-day activities



Focuses on proactive and strategic activities



APPROACH

Siloed approach with "we'll do it all ourselves" attitude

D.I.Y.



Collaborative approach with shared accountability for protecting information

VIEW OF RISK

Check-list or compliance view whereby Security's goal is to mitigate all risks



Business units own the risk/reward decisions. Security operates a risk consultancy to advise the business on assessing and managing risks



THREAT DETECTION

Look at security events generated by dedicated security devices



Use intelligence-driven security to detect malicious activity within business processes



- Collect data from various internal and external sources
- Apply data-enrichment and analytics techniques

CONTROLS OPERATION

Basic infrastructure security controls are operated by Security



Selected, well-established, repeatable security processes are delegated to internal and external service providers



Governed by Security through Service Level Agreements (SLAs)

CONTROLS ASSESSMENT

Auditors periodically assess security controls using manual methods



Controls assurance analysts continuously collect evidence on the efficacy of security controls using more automated methods. Auditors use this evidence in their assessments



PROCESS IMPROVEMENTS

Security processes are improved on an ad-hoc basis



Security processes are consistently tracked, measured, and optimized based on process expertise and formalized methods

6σ

TALENT

Mostly backgrounds in IT and security



Broadened to also include backgrounds such as data science, math, history, economics, military intelligence, and business analysis

