Collaborative Security Model

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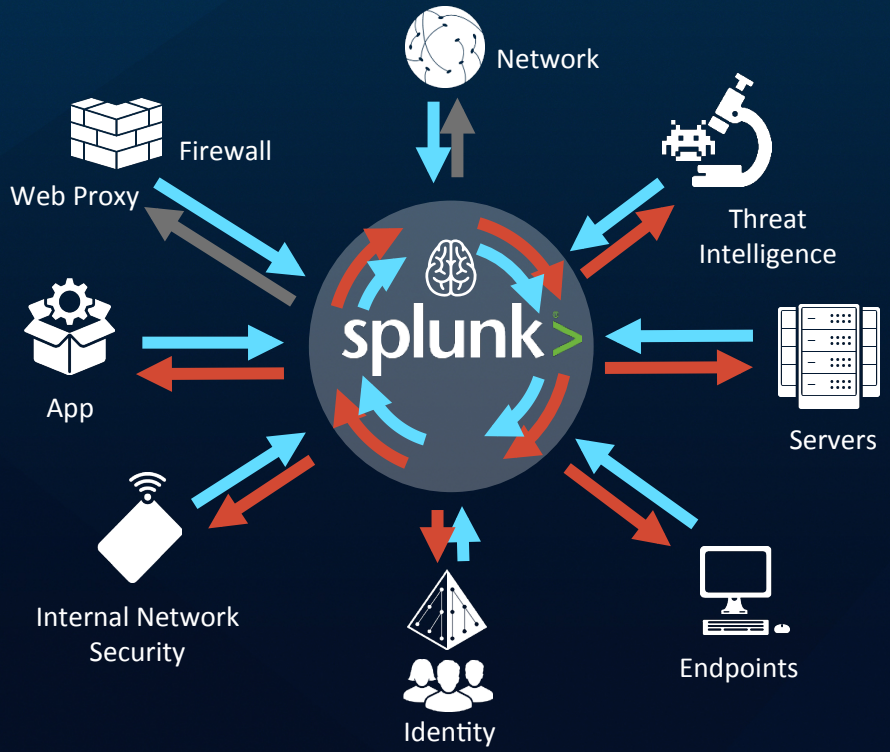
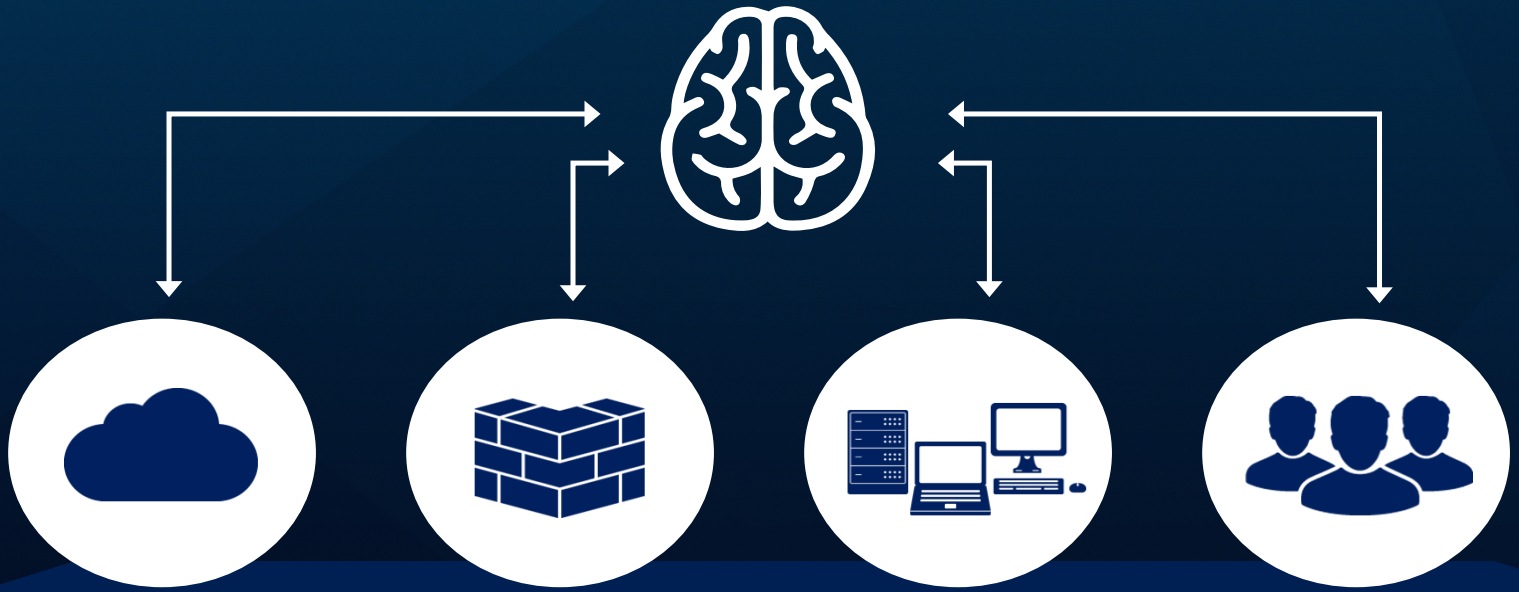
SECURITY NEEDS
A NEW APPROACH
AND A WELL
ORCHESTRATED SYSTEM

Splunk is the Security Nerve Center

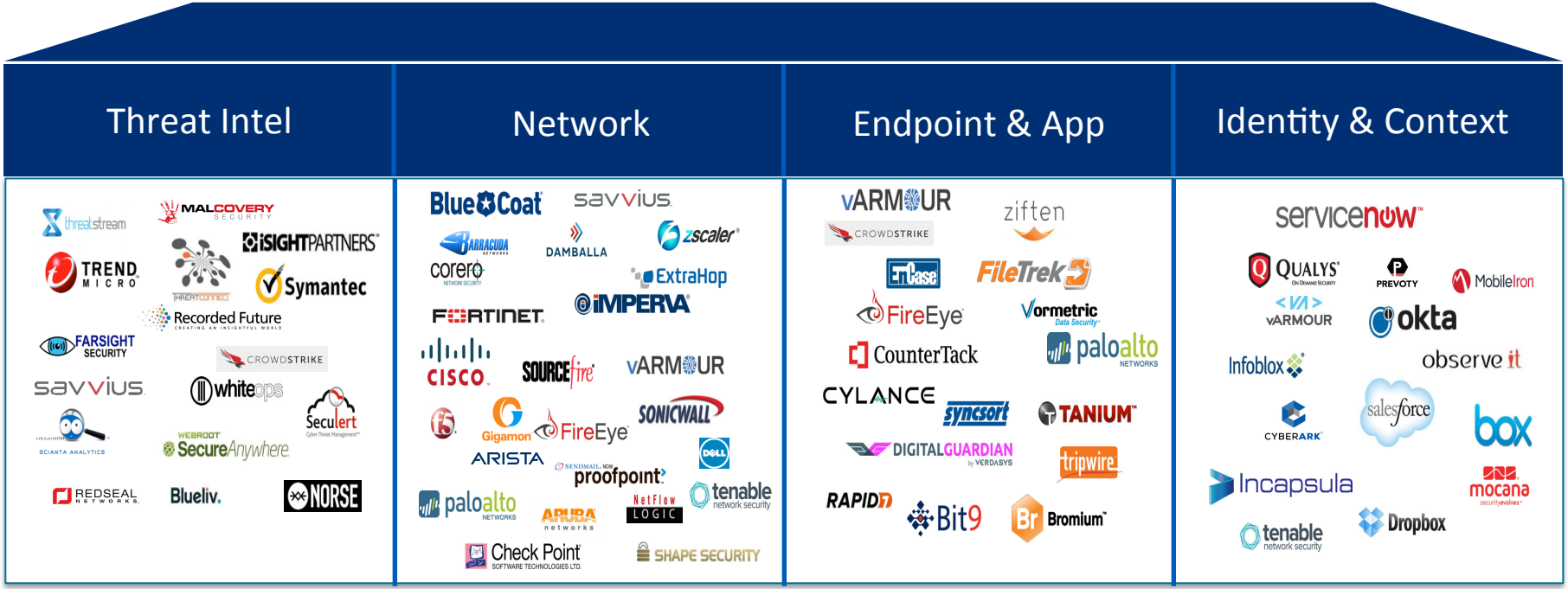


Nerve Center & the Ecosystem



Threat Intel | Network | Endpoint & App | Identity & Context

Security Ecosystem



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Personal Introduction

swisscom

- Christof Jungo is the Head of Security Architecture and Engineering at Swisscom, the largest Telco provider in Switzerland
- More than ten years of experience in managing the design and development of security solutions in the Internet provider domain
- Previously, Chief Technology Officer and member of the management at NETIX, specializing in networking and security
- Author of numerous articles on Cloud Security and council member of the Information Security Forum (ISF)

Swisscom Network

Our network infrastructure

Ultra-fast broadband coverage (fibre optic) | > 1.4 million homes and businesses

TV coverage

- 93% digital TV
- 88% HDTV

Mobile broadband coverage

- 99% 2G
- 98% 3G
- 98% 4G/LTE

Universal service & ADSL | • 97% (>2Mbps)

Swisscom has one of the best telecoms infrastructures in the world.

Fixed network:

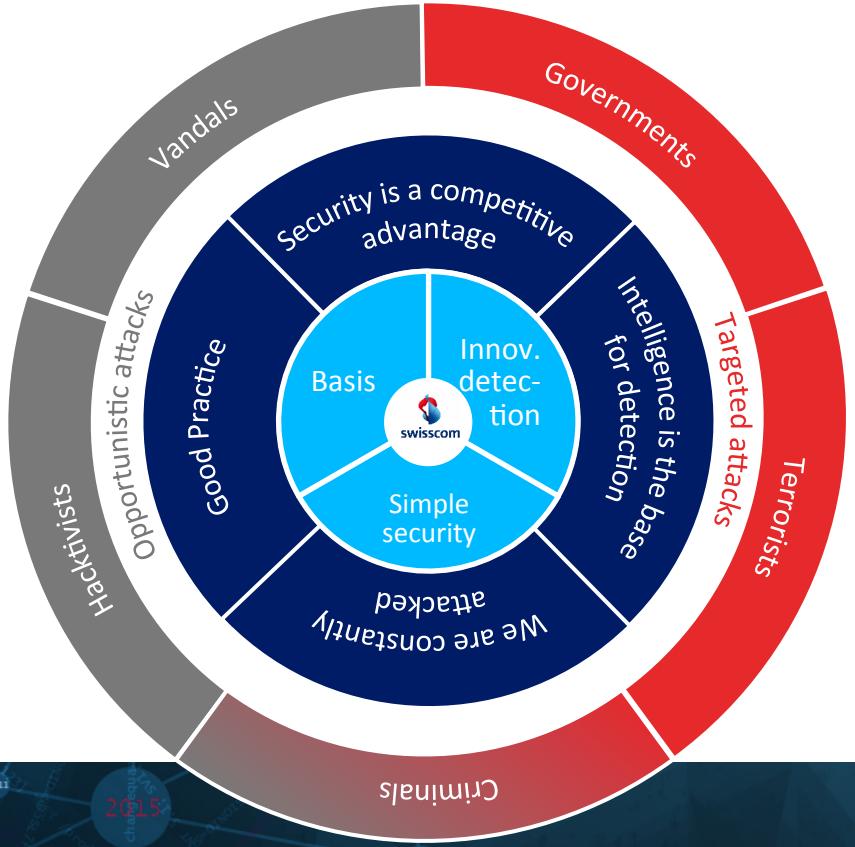
By the end of 2015, Swisscom will supply 2.3 million homes and businesses with ultra-fast broadband.

Mobile network:

By 2016, Swisscom will have extended 4G/LTE coverage to 99% of the Swiss population.

Swisscom Security

Our Aspiration: << We build security for people in a connected world – always and everywhere>>



How to Protect the Business

Targeted cooperation is required for success

Prevention	Detection	Intervention
• Proactive protection of data at various levels Systems, Employees, Networks	• Early detection of attacks • Collection of information on intrusions from the Internet and the data	• Efficient and effective response to security incidents
• Training/awareness of employees (phishing campaign) • Continuity management • Resilience • Security risk management	• Data leakage prevention • SIEM • Threat intelligence • HoneyNet • Exchange with third parties	• Robust incident processes • Abuse and fraud management • Automated reactions • Disaster recovery and crisis management

Basic Principles

- Basic protection provisions, processes and technologies on which other measures are based

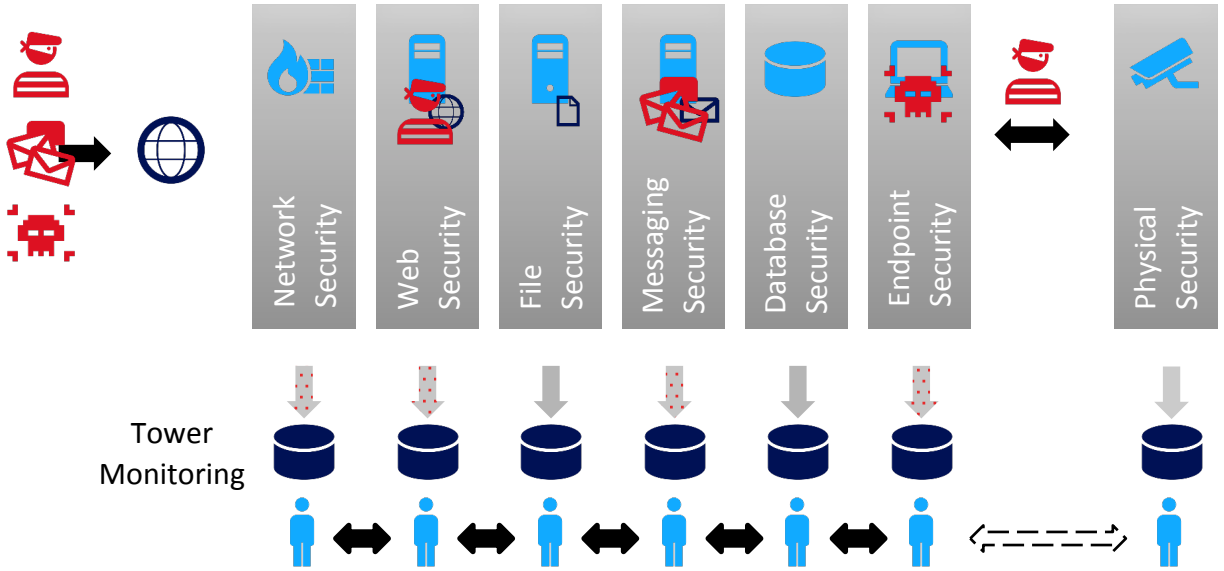
- Policy framework
- Identity and access management
- Physical security
- Cooperation with other organizations
- Asset & risk inventory
- Knowledge about the threat situation
- Firewalls, intrusion detection systems, antivirus software, …

Internal Challenge

Environments have developed over time

Impact of IT Industrialization

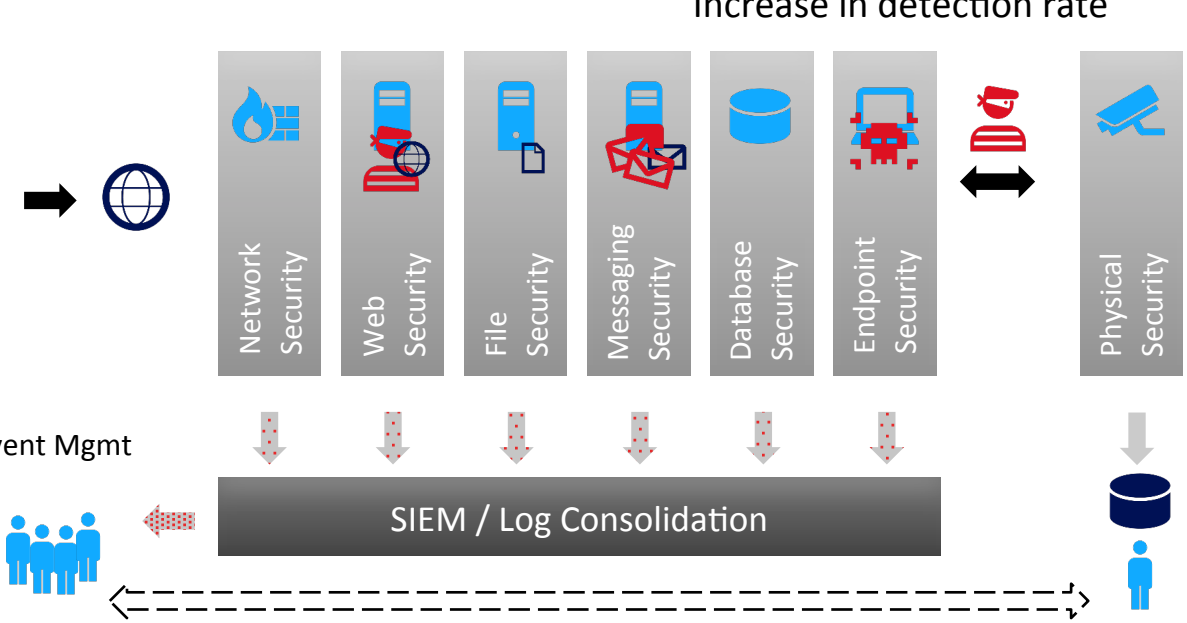
Silo landscapes and isolated analysis of security



- Detection time: modest
- Coordination time: high
- Remediation time: high to very high
- Integration costs: very high with umbrella systems

Centralization and Consolidation

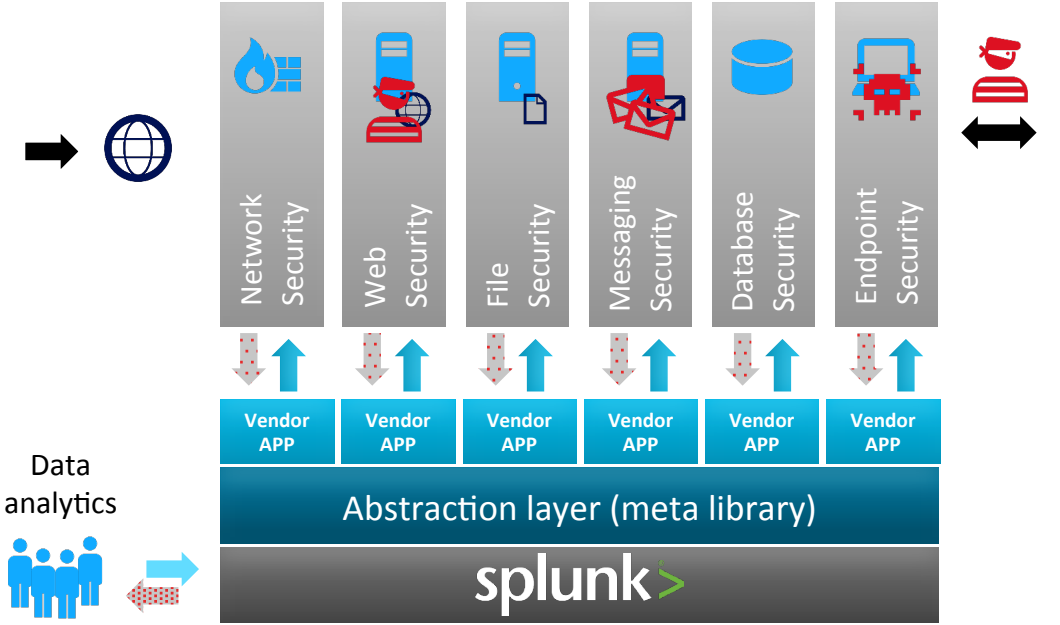
Increase in detection rate



- Detection time: good
- Coordination time: average
- Remediation time: average
- Integration costs: high

Active Response

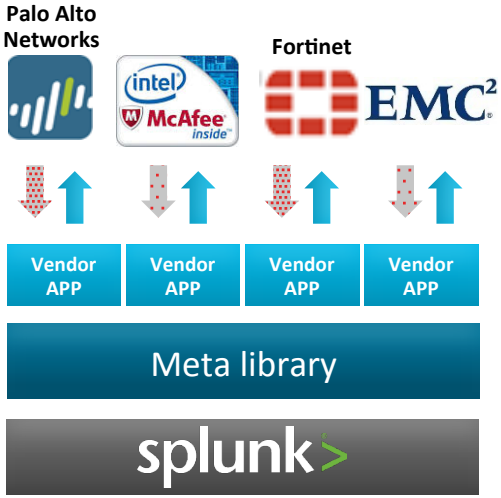
Set-up of abstraction layer and response channel



- Detection time: good
- Coordination time: low
- Remediation time: low
- Integration costs: low

Prototype/Demonstrator

Set-up of eco-system



Meta library

- Open and freely upgradeable abstraction layer for security commands as per CSS (design language in web design)
- Standardisation by a body aka W3C World Wide Web Consortium
- Integral element of Splunk (without additional costs)

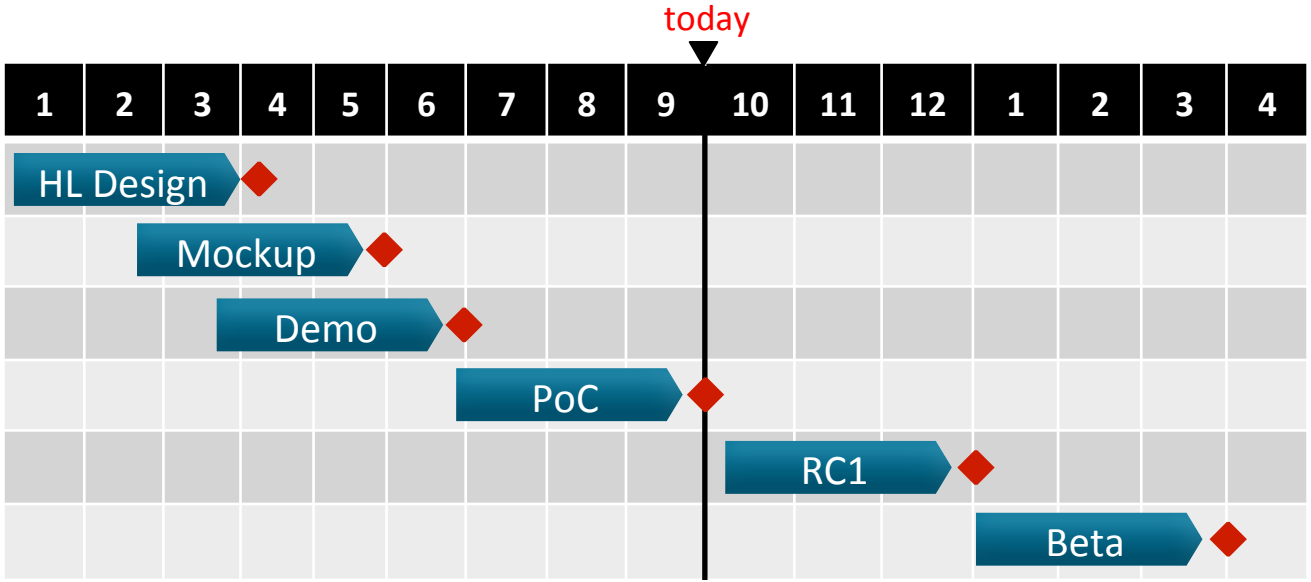
Vendor APP

- Establishment of the communication channel
- Translation of the meta library into device-specific commands and configurations
- APP development by manufacturers
- APP store for manufacturers

Onboarding

- Straightforward onboarding processes for manufacturers
- Quality assurance processes for APP

Planning and Milestones



Benefits of the Collaborative Security Model

Interaction and adaptability

Collaboration and eco-system through open interfaces, easy integration and distributed development costs. The focus is on simplicity, flexibility and dynamism.

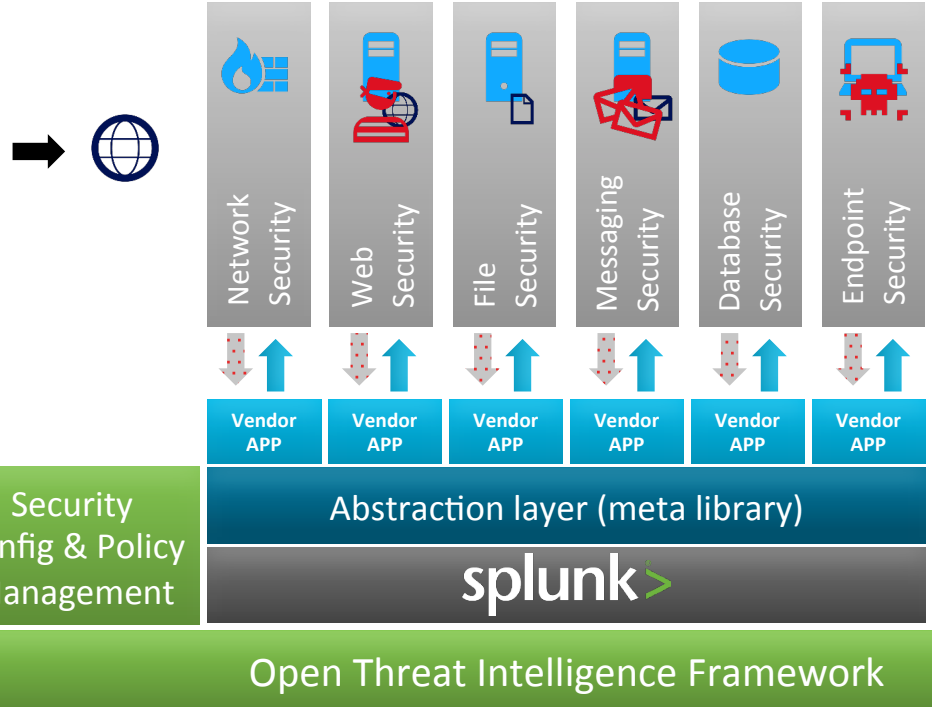
The Collaborative Security Model

- Reduces the dependence of security manufacturers and encourages them to improve the quality of their products
- Enables interaction between various manufacturers
  - Eco-system instead of silo landscape
- Facilitates the integration of new components (Plug&Play)
- Reduces management requirements (SoC & CSIRT) and costs

The market functions well if willingness to collaborate is part of the manufacturers' product strategy.

The Next Level

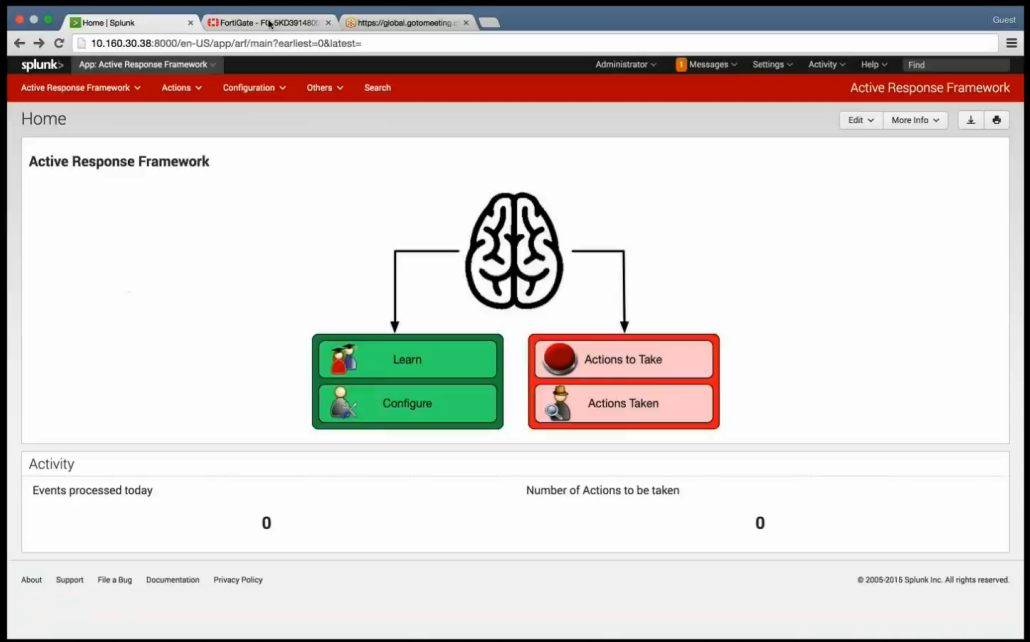
Integration with other threat detection components



The next level is a tight integration with exitsting Threat Intelligence Network as well as Automatic Testing Environments like Vulnerability Scanning or Penetration Testing Frameworks

Demo

Integration between Fortinet and Splunk



Questions?

THANK YOU

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