

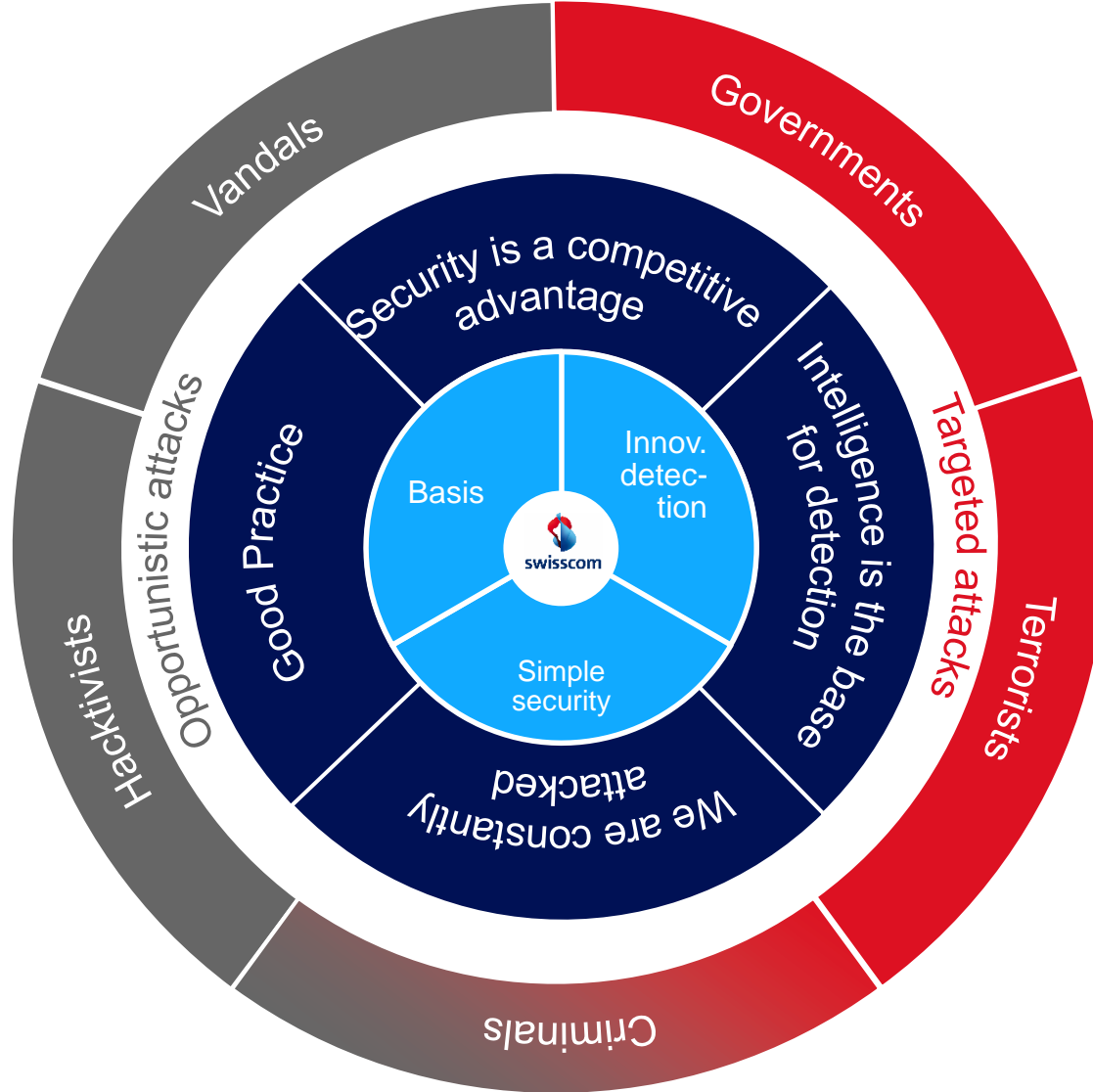
Collaborative Security Model (CSM)

Security Architecture Vision 2015+

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C2, internal use (SIGS)
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Swisscom Security

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



Various areas involved in the protection of the business

Targeted cooperation is required for success

Prevention 	Detection 	Intervention 
<ul style="list-style-type: none"> > Proactive protection of data at various levels > Systems, Employees, Networks 	<ul style="list-style-type: none"> > Early detection of attacks > Collection of information on intrusions from the Internet and the data 	<ul style="list-style-type: none"> > Efficient and effective response to security incidents
<ul style="list-style-type: none"> > Training/awareness of employees (phishing campaign) > Continuity management > Resilience > Security risk management 	<ul style="list-style-type: none"> > Data leakage prevention > Security information and event management (SIEM) > Threat intelligence > HoneyNet > Exchange with third parties 	<ul style="list-style-type: none"> > Robust incident processes > Abuse and fraud management > Automated reactions > Disaster recovery and crisis management
Basic Principles 		
<ul style="list-style-type: none"> > Basic protection provisions, processes and technologies on which other measures are based 		
<ul style="list-style-type: none"> > Policy framework > Identity and access management > Physical security 	<ul style="list-style-type: none"> > Cooperation with other organisations > Asset & risk inventory 	<ul style="list-style-type: none"> > Knowledge about the threat situation > Firewalls, intrusion detection systems, antivirus software, ...

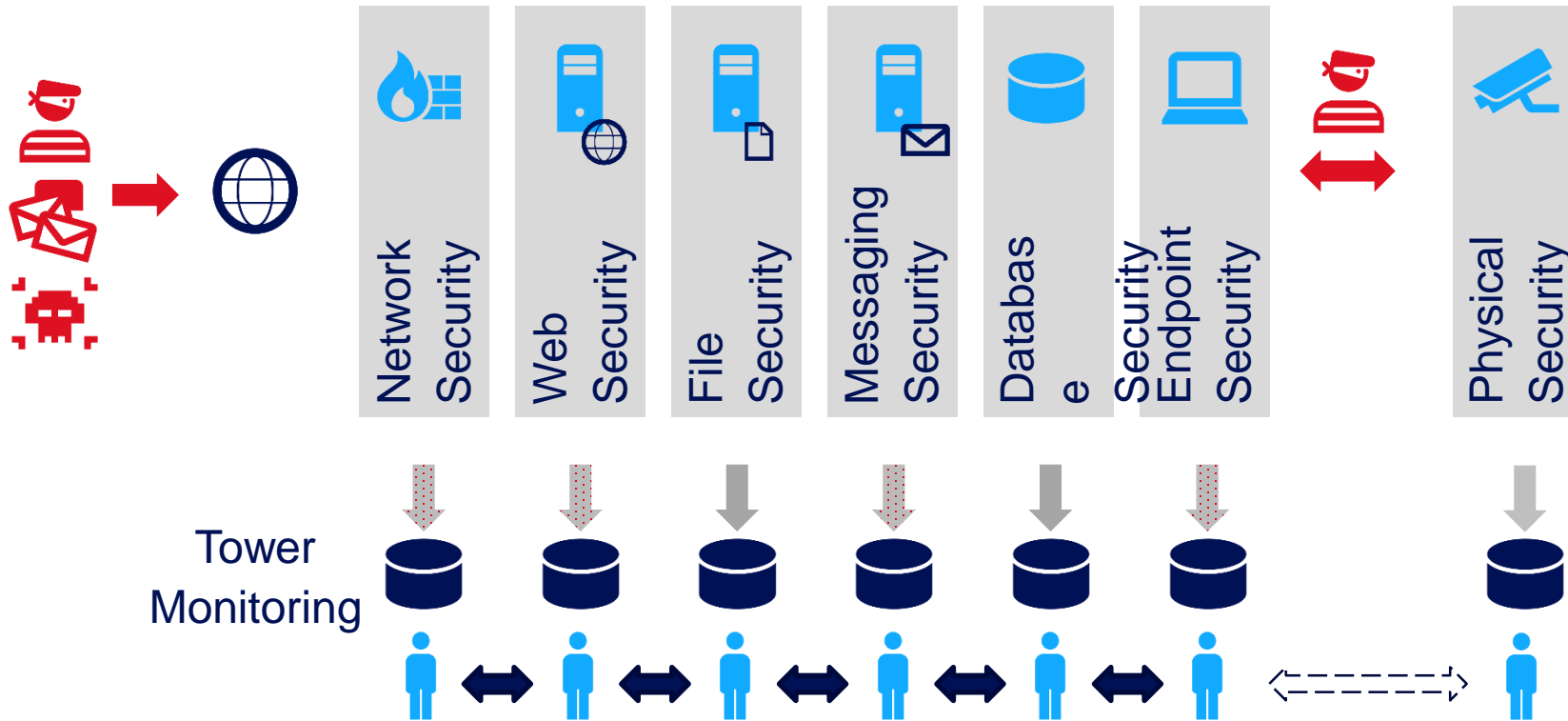
Internal challenge

Environments have developed over time



Impact of IT Industrialisation

Silo landscapes and isolated analysis of security

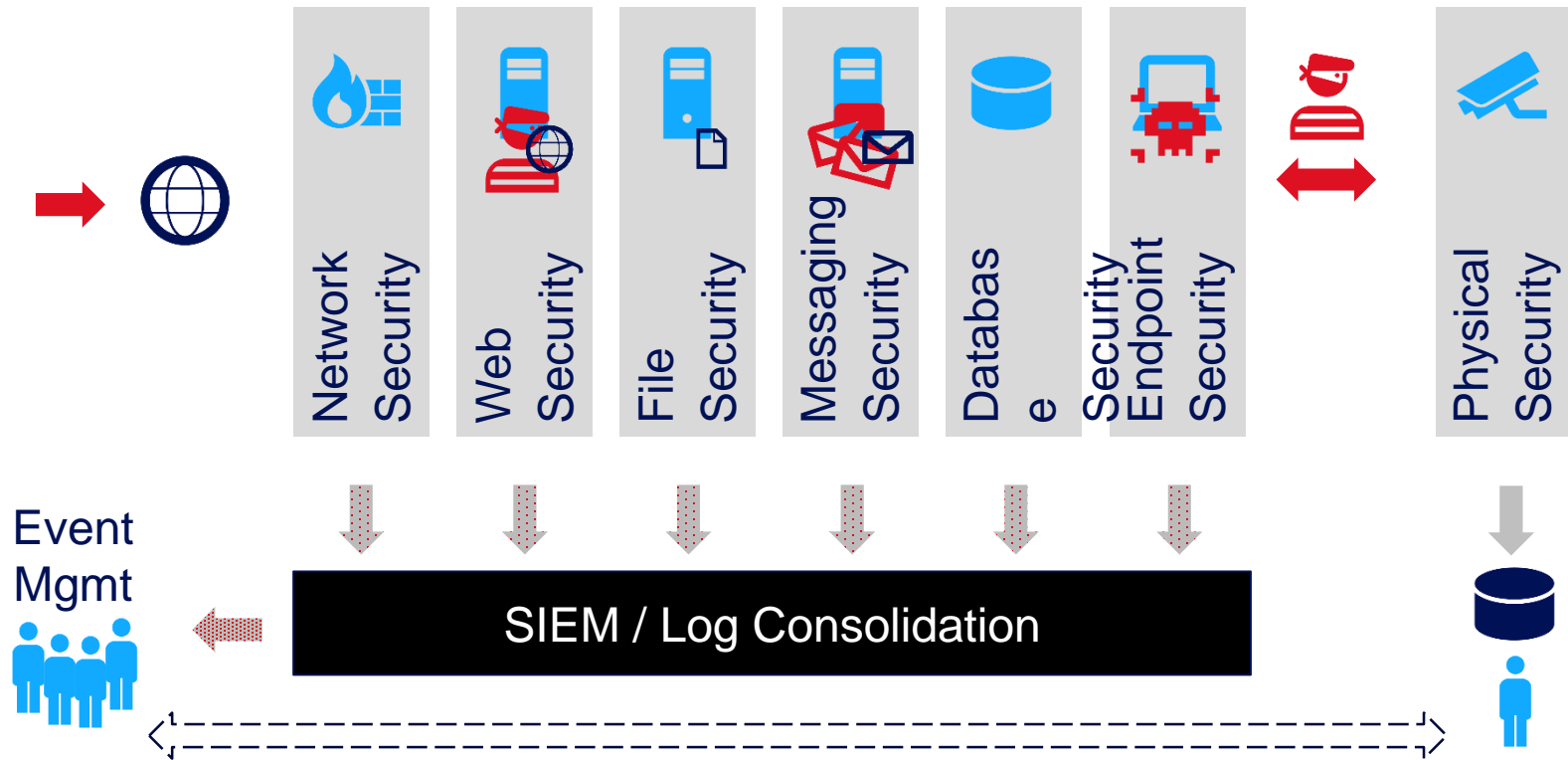


Detection of security incidents: modest
Time requirement for coordination: high
Time requirement for remediation: high to very high
Integration costs: very high with umbrella systems



Centralisation and Consolidation

Increase in detection rate

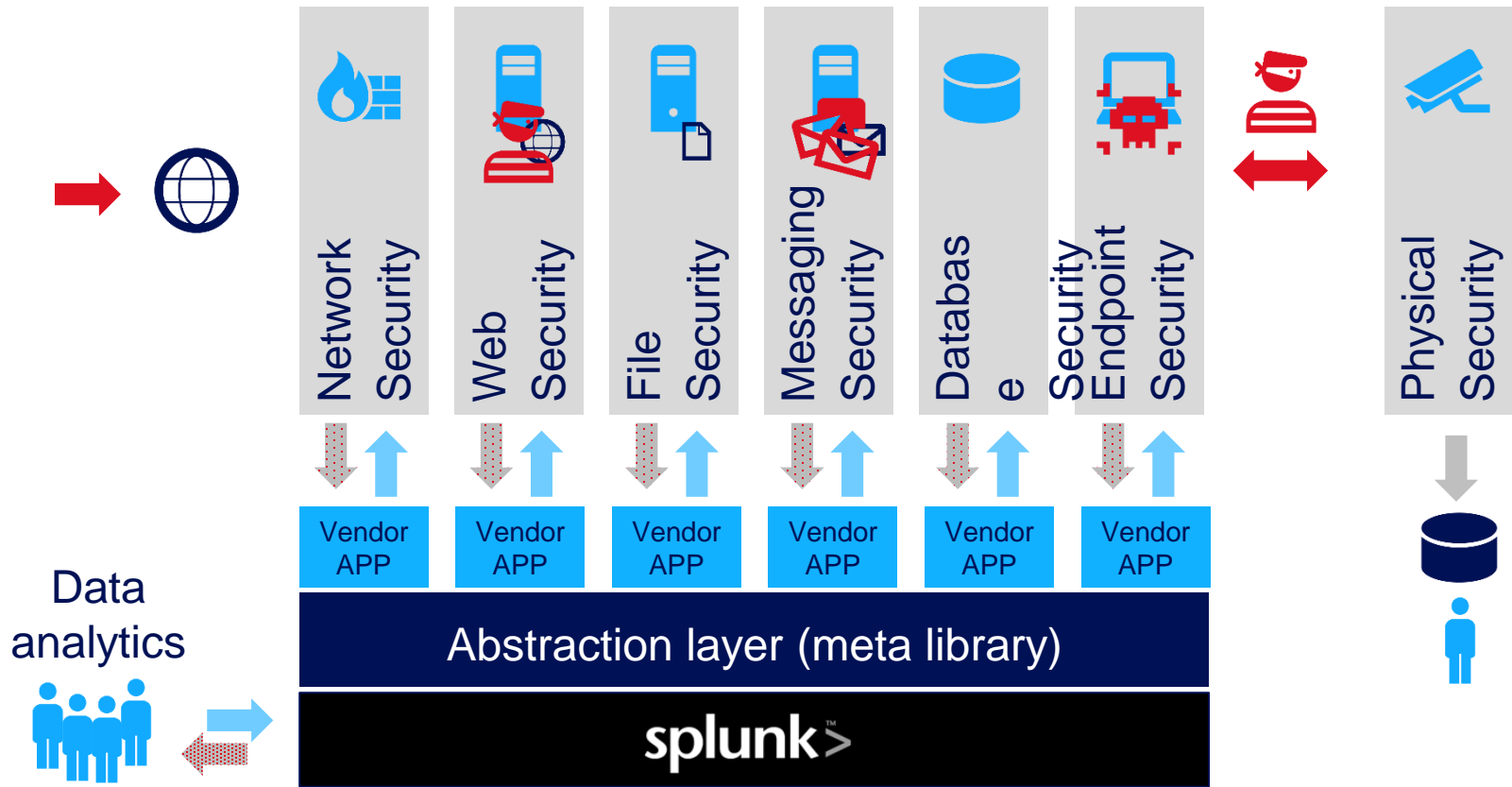


Detection of security incidents: good
Time requirement for coordination: average
Time requirement for remediation: average
Integration costs: high

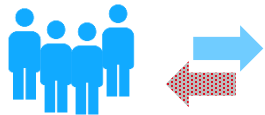


Active Response

Set-up of abstraction layer and response channel



Data analytics

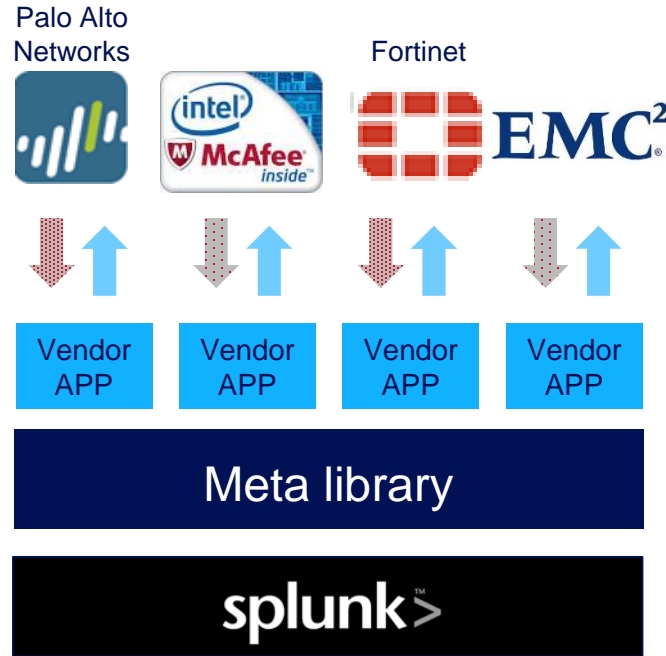


Detection of security incidents: good
Time requirement for coordination: low
Time requirement for remediation: low
Integration costs: low



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

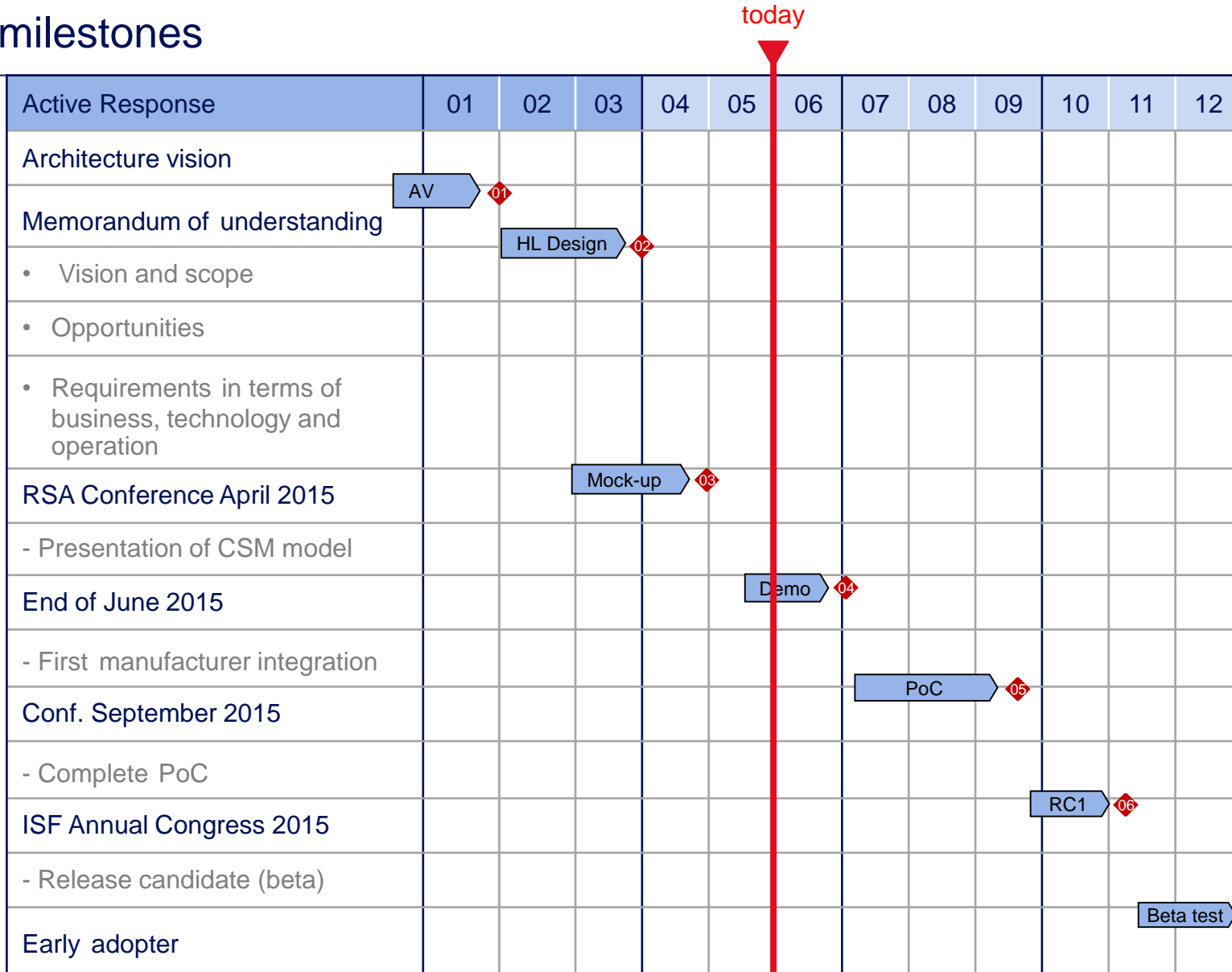
- Straightforward onboarding processes for manufacturers
- Quality assurance processes for APP

Collaboration and eco-system through open interfaces, easy integration and distributed development costs



The Path to Version 1.0

Planning and milestones



Benefits of the Collaborative Security Model

Interaction and adaptability

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 focus is on simplicity, flexibility and dynamism



Upgrading the Eco-System

Support from the community

We can only achieve the greatest possible penetration together if

- You call upon your suppliers to take part in the eco-system (making APP available)
- Collaborative security model becomes part of the product requirements (demand management)
- The suppliers understand the benefits for them

We need your support in order to be successful

Only through collaboration and with an eco-system and a market that functions well will we achieve optimal security and be able to protect ourselves adequately.



Thank you

raibh raibh
Dziękuję
Go Go
Obrigado
je je
Takk Takk
fyri fyri
baie baie
Teşekkür
Pakka
Grazie
dankie
Danke
Obrigada
Misaotra
Dank
Mulțumesc
agat
ederim
Gratias
dekem
Paldies
Köszönöm
Gracias
Gràcies
Mahalo
Merci
Tak
Tack
Sipas
maith
Danke
Hvala
pér