

About Me

My CV

- +15 years of experience in information security
- Expertise: security monitoring, security incident response, security architecture and security operations
- SOC roles: analyst, engineer, incident responder, specialist, team lead, manager
- Public speaker, researcher/author, course developer, teacher
- Freelance consultant
 - SOC building
 SOC transitioning
 - SOC improvement

SOC assessment

Cyber Security Assessment

Argos

Security Operations Centers

Security Operations

- Prevent, detect & respond
- Central point of knowledge & expertise on cyber defense

Effective Cyber Defense

Definition

 Effective cyber defense means controls are functioning as designed, systems are secure and incidents are followed up directly to limit or negate impact

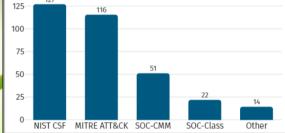


SOC-CMM

Maturing your SOC

- Designed to grow and mature your SOC
- Built on scientific research
- Measures capability & maturity
- Can be used to demonstrate ROI to SOC investments

What model(s) are you using to determine what capabilities your SOC needs? Select all that apply.



Source: SANS SOC survey 2021

Measurement & Metrics

Measure

To establish effectiveness of the SOC, measurements are required SOC-CMM provides a means to measure and improve

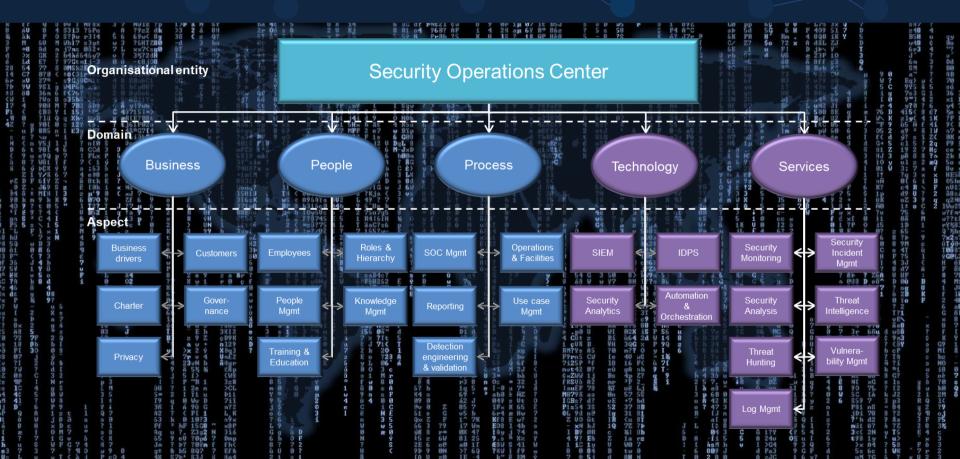
SOC-CMM Model



SOC-CMM Model



SOC-CMM Model



Use cases

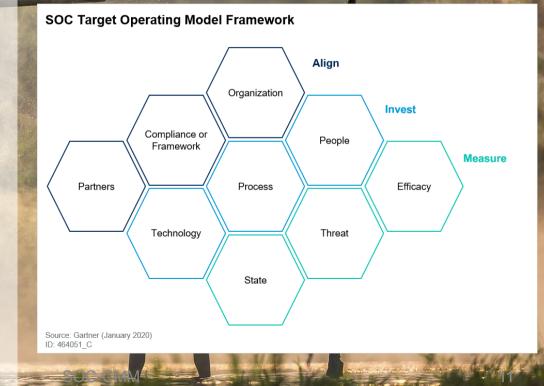
SOC-CMM use cases

- SOC current state
 assessment
- SOC benchmarking
- SOC design (checklist)
- SOC target operating model definition
- SOC certification (under construction)

Target Operating Model

SOCTOM

- Starts with strategic SOC goals
- Target operating state is derived from those goals
- Involves many SOC aspects
- Must be approved by senior management



SOCTOM horizon

Horizon

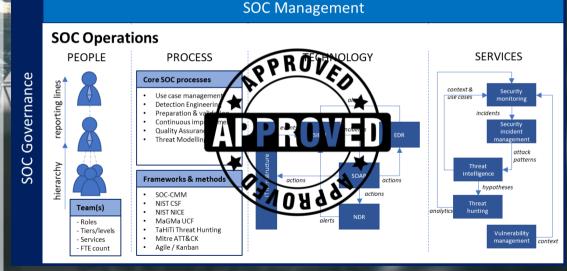
- Determines when the target state should be acquired
- Longer horizon = less detail
- Multiple horizons can be used: stages



SOCTOM definition

Steps

- Determine current state (assessment)
- Determine target state
- Approve target state by senior management



SOCTOM realisation

Operationalising

- Perform a gap analysis (current vs. target state)
- Define the backlog



SOCTOM realisation

Operationalising

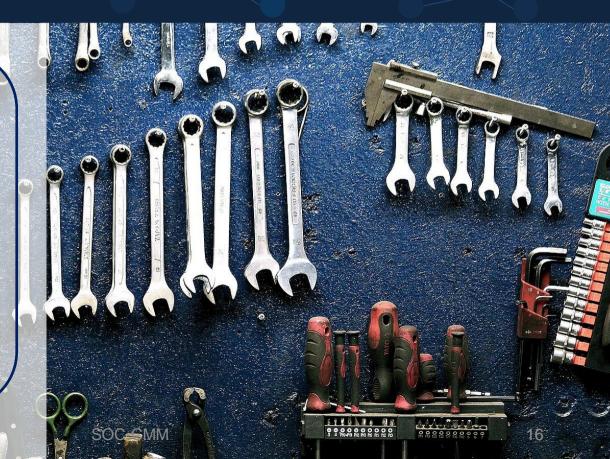
- Operationalise the SOCTOM backlog iteratively
- Re-evaluate current and target state to ensure continued alignment



SOC-CMM SOCTOM tool

SOCTOM tool

- Define current state and target state
- Provides detailed input for the SOCTOM
- Aligned with SOC-CMM and Gartner framework



SOCTOM tool structure

Current state (SOCCOM)

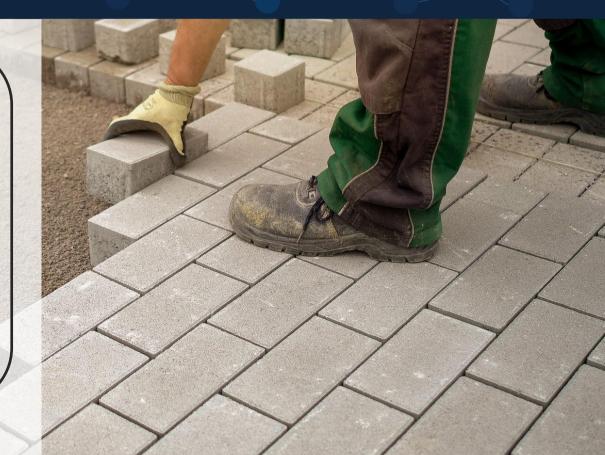
Target state (SOCTOM)

| - | | | | | | | | | - | |
|------------|----------|---------|-------|----------|--------|----------|---------|-------|------------|----------|
| Capability | Maturity | Element | State | Aspect 1 | Domain | Aspect 1 | Element | State | Capability | Maturity |
| | | Element | State | | | | Element | State | | |
| | | Element | State | | | | Element | State | | |
| | Maturity | Element | State | Aspect 2 | | Aspect 2 | Element | State | Capability | Maturity |
| Capability | | Element | State | | | | Element | State | | |
| | | Element | State | | | | Element | State | | |
| Capability | Maturity | Element | State | Aspect | | Aspect | Element | State | Capability | Maturity |
| | | Element | State | | | | Element | State | | |
| | | Element | State | | | | Element | State | | |

SOC-CMM Development

Recent & future

- Support license
 (released 2022)
- SOC target operating model tool & whitepaper (released now)
- SOC Certification (pilot phase)
- SOC-CMM assessment training



Wrap-up

Key take-aways

- Achieving a target operating state requires definition and guided improvement
- SOC-CMM provides the tools
- Free download



info@soc-cmm.com

Arg Cyber Security Assessment

rob@argos-csa.nl