

## Don't make me think an intuitive access management approach





Resilience Capability Webinar, 28.04.2021

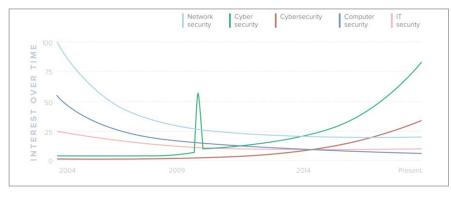
#### Agenda

- 1. Introduction
- 2. Intelligent Role Management System
- 3. See it in action!
- 4. Future Work

CYBE

#### Introduction





(Google Trends)



CYBE

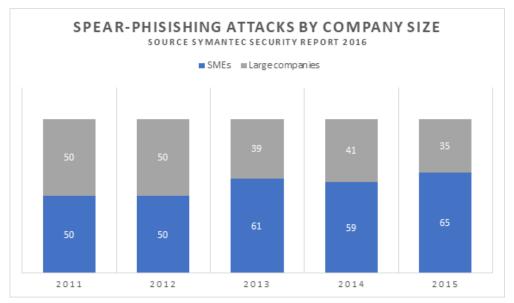
Applying cybersecurity controls to prevent unauthorized access to sensitive information is critical

#### Introduction

#### CYBER FACTORY NO.1

## Cyberthreats still materialize.

- 99% of European businesses are SMEs (EU Commission report)
- The rate of cyber-attacks against SME is considerable (65% of SMEs suffered an attack in 2020)

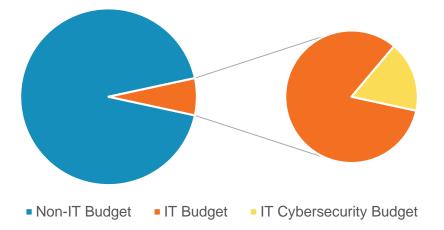




### Why are SMEs especially vulnerable to Cyberattacks?

#### Minimal Management Support leading to Low Budget Priority

Overall SME's budget



Kabanda, Salah, Maureen Tanner, and Cameron Kent. "Exploring SME cybersecurity practices in developing countries." Journal of Organizational Computing and Electronic Commerce 28.3 (2018): 269-282.

Sangani, Nilaykumar Kiran, and Balakrishnan Vijayakumar. "Cyber security scenarios and control for small and medium enterprises." Informatica Economica 16.2 (2012): 58.



## Why are SMEs especially vulnerable to Cyberattacks?

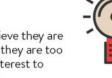
"There are two types of companies: those that have been

hacked, and those who don't know they have been hacked."

(John T. Chambers)

- Lack of awareness
- Wrong threat perception
- Lack of internal cybersecurity policy
- Lack of internal expertise







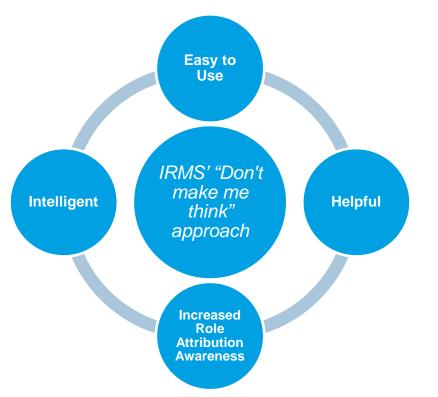
Source. Juniper Research 2016

Kabanda, Salah, Maureen Tanner, and Cameron Kent. "Exploring SME cybersecurity practices in developing countries." Journal of Organizational Computing and Electronic Commerce 28.3 (2018): 269-282. Sangani, Nilaykumar Kiran, and Balakrishnan Vijayakumar. "Cyber security scenarios and control for small and medium enterprises." Informatica Economica 16.2 (2012): 58.

#### How can CF#1 help?

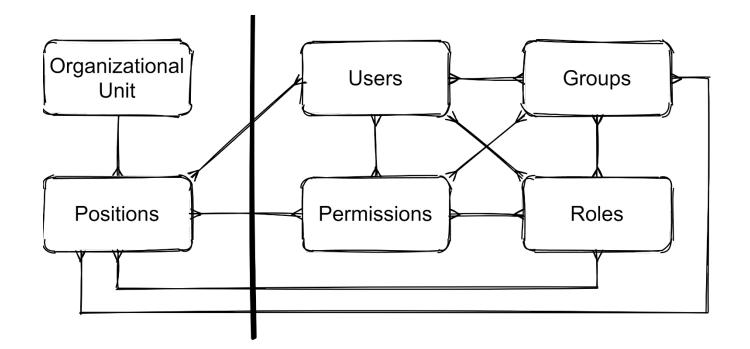
- Sistrade is developing an Intelligent Role Management System (IRMS) to mitigate access control errors and vulnerabilities
- Simply put: an intuitive management of Roles and Permissions that every company can use
- Highlights:
  - Enhanced Interoperability with existing systems (no need to change existing systems)
  - Improved Liability
  - Enhanced Logging for Threat and Misuse Awareness
  - Best Compromise Between Access Control Models
  - "Doesn't make me think"

## What do I mean with "Don't Make me Think"?



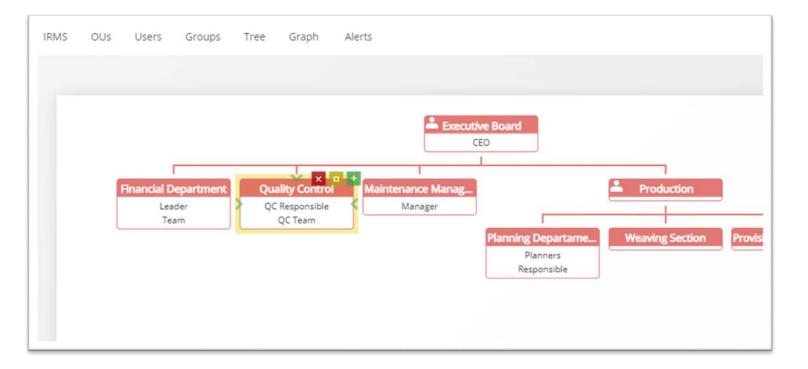
CYBER Facto

IRMS Model and its Flexibility:



CYBER FACTOR CF#1

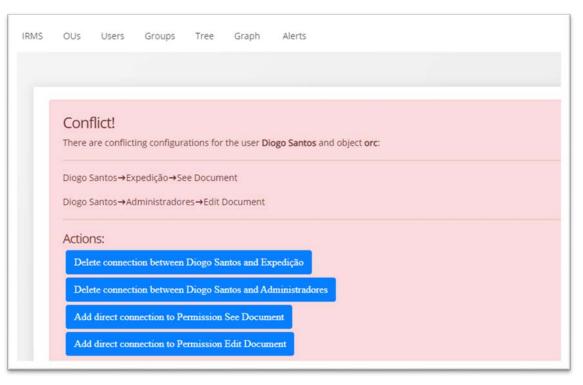
Organizational (Organogram) mapping and Position Definitions



CYBER FACTOR CF#1

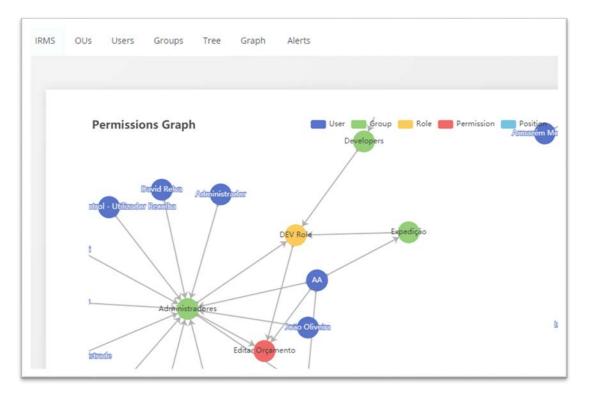


Conflict Detection and Resolution





Permissions Graph





- IRMS is still at early stage of development being an ongoing work
- Coming soon...
  - GxP Assistant
  - Liability Compliance Meter
  - Log Data CSV Exporting
- We hope we can incorporate your suggestions!



# Thank you!



#### Diogo Santos diogo.santos@sistrade.com | Researcher

Resilience Capability Webinar, 28.04.2021