



SAURON Valencia pilot scenario

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Sauron Pilot Events



1 Port of Sagunto Drone Pilot Event (in collaboration with ROCSAFE Project)

Reference scenario: **Drone detects a truck accident in a transit zone**

Location: Sagunto Container Terminal, Spain

Date: 21st November, 2019



2 Port of Piraeus Cruise Pilot Event

Reference Scenario: **Terrorist attack at PPA Cruise Terminal**

Location: PPA Cruise Terminal, Piraeus, Greece

Date: 13th February, 2020



3 Port of Valencia Container Pilot Event

Reference Scenario: **Terrorist attack on a Container Terminal**

Location: CSP Iberian Valencia Terminal, Valencia, Spain

Date: 2nd July, 2020

Objectives

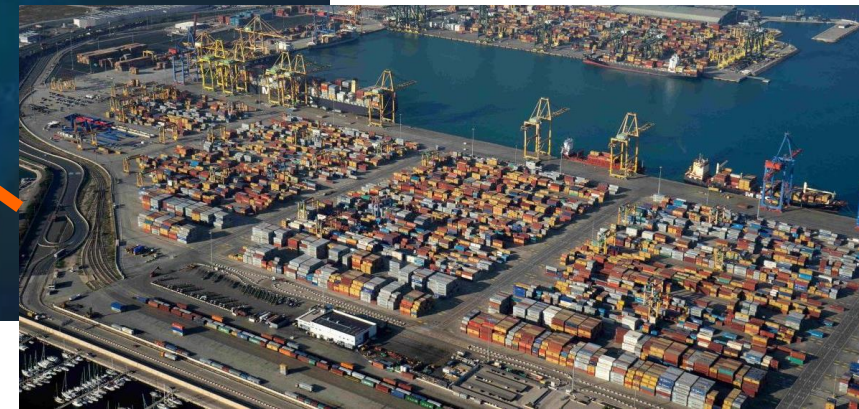
The main objectives of the pilot event are:

- Validate the main Sauron components in a real environment
- Help port operators to detect and anticipate potential cyber, physical or combined threats



Sauron

Location



2nd July 2020

Valencia pilot demonstration



Data Sources

Physical sources

- CCTV. Land and maritime side
- Presence sensor
- Smoke sensors
- Tablets GPS (Security staff)
- AIS
- PCS



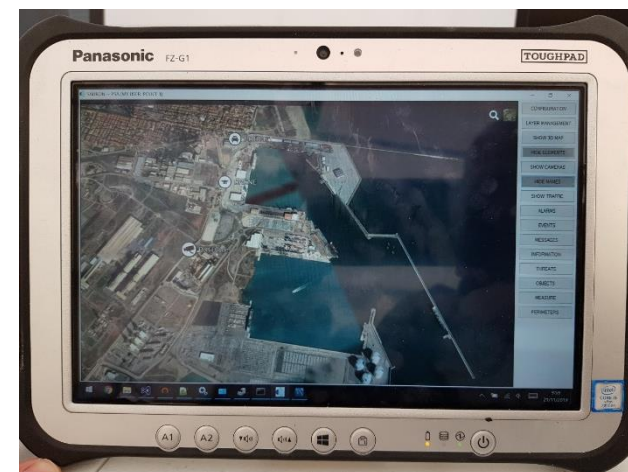
2nd July 2020

Cyber sources

- Network Intrusion Detection System
- Vulnerability scanning
- Host-based intrusion detection systems



Illustration

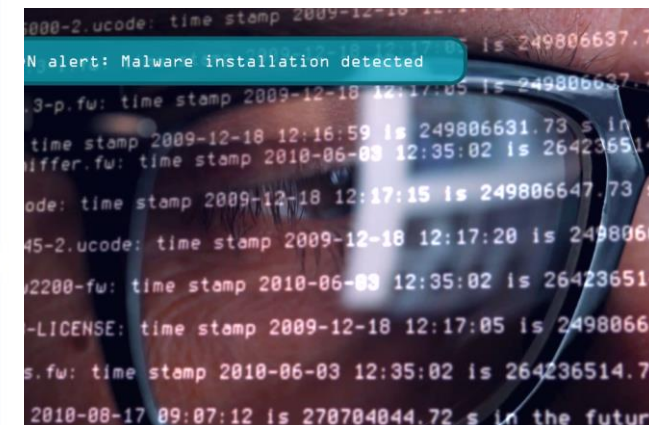
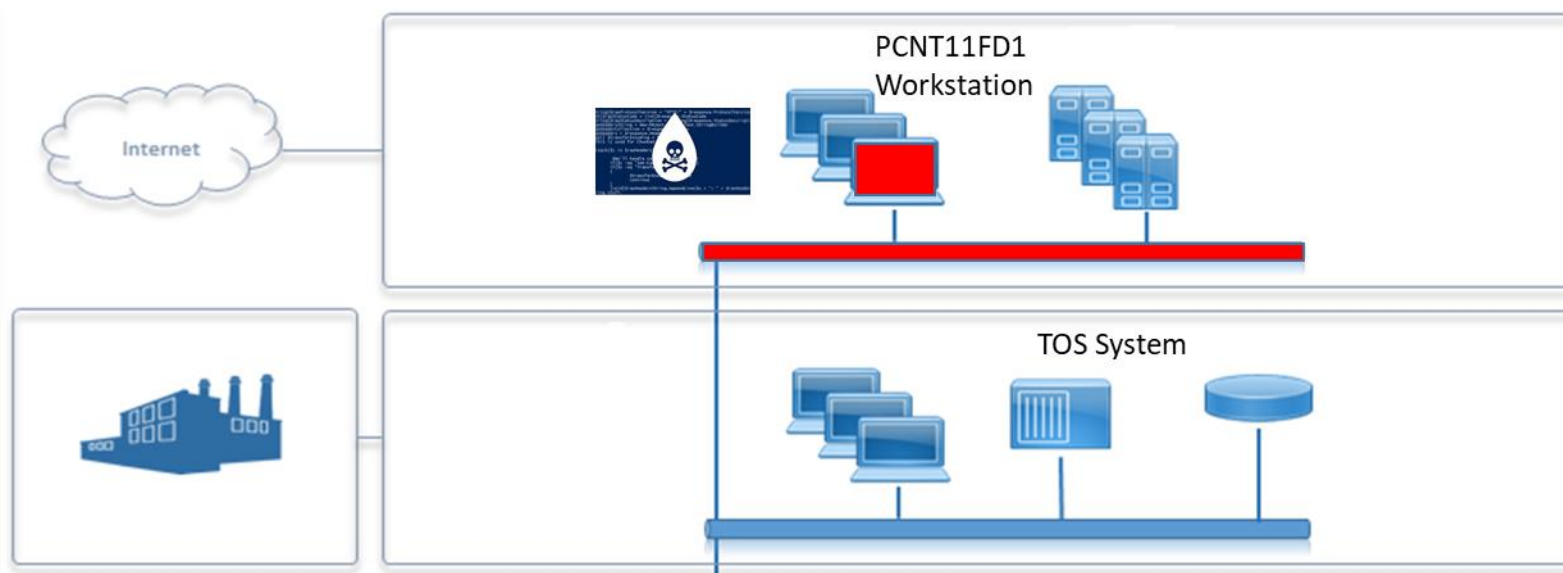
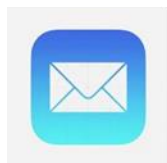




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1. RAT downloaded from an email and installed

Days before the attack, there is a cyber-attack to take control of a computer. A Malware is installed providing Remote Access

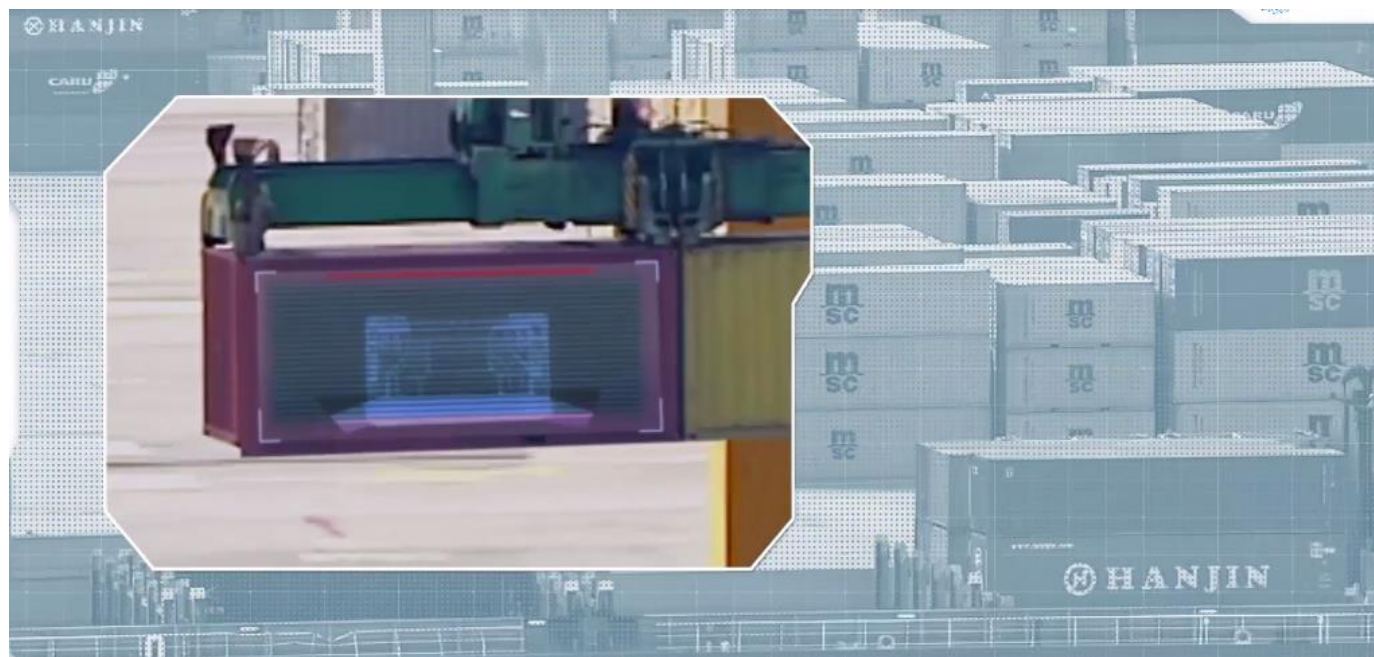




Valencia pilot scenario

2. Container arriving to the port

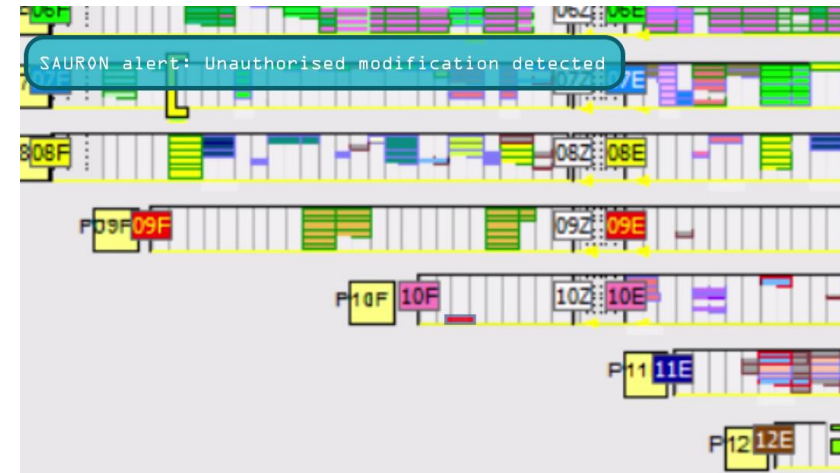
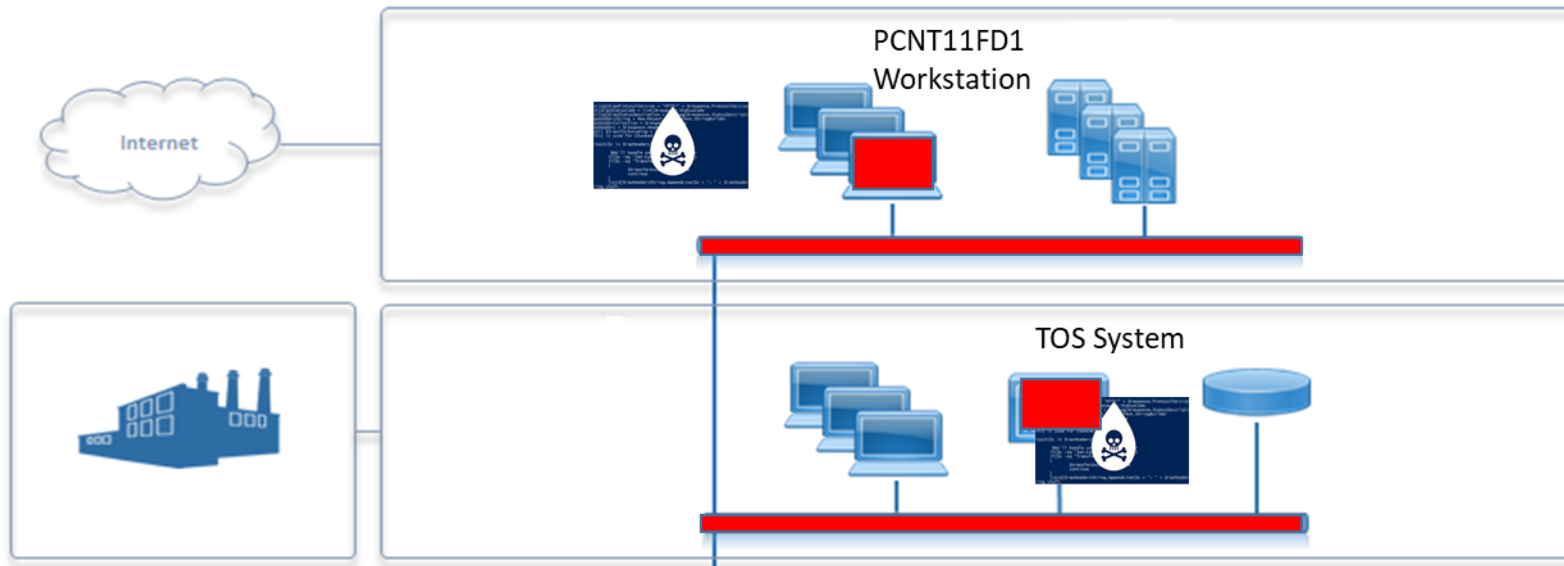
The vessel containing the bomb arrives to the port



Valencia pilot scenario

3. Container is relocated

Through the compromised computer, terrorist access to the TOS to relocated the container



Valencia pilot scenario

4. Fire to disable the perimeter surveillance video

Terrorist access the port and initiate a fire close to the server room to disable the surveillance camera

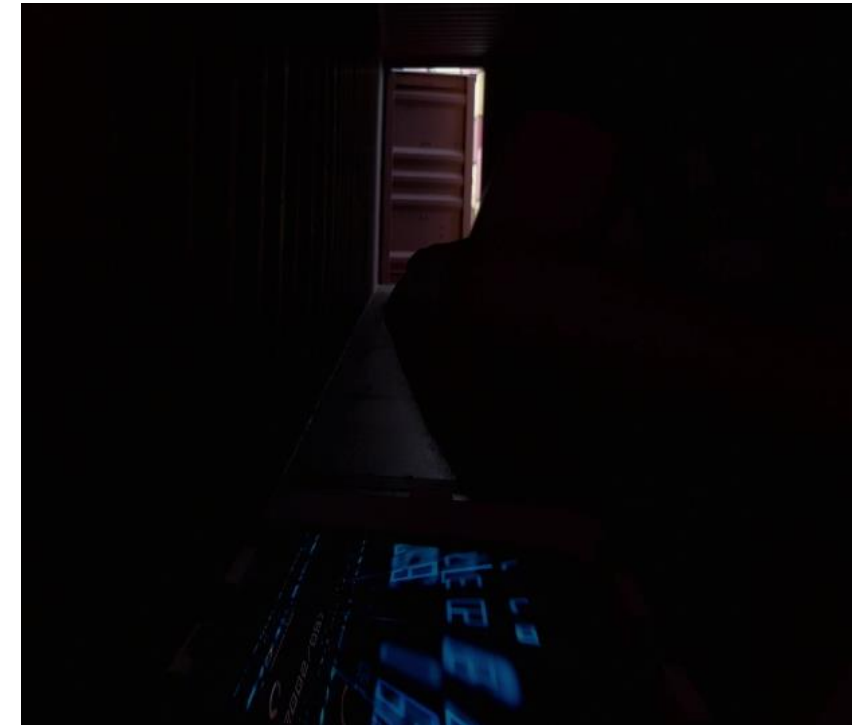




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5. Terrorist accessing the terminal

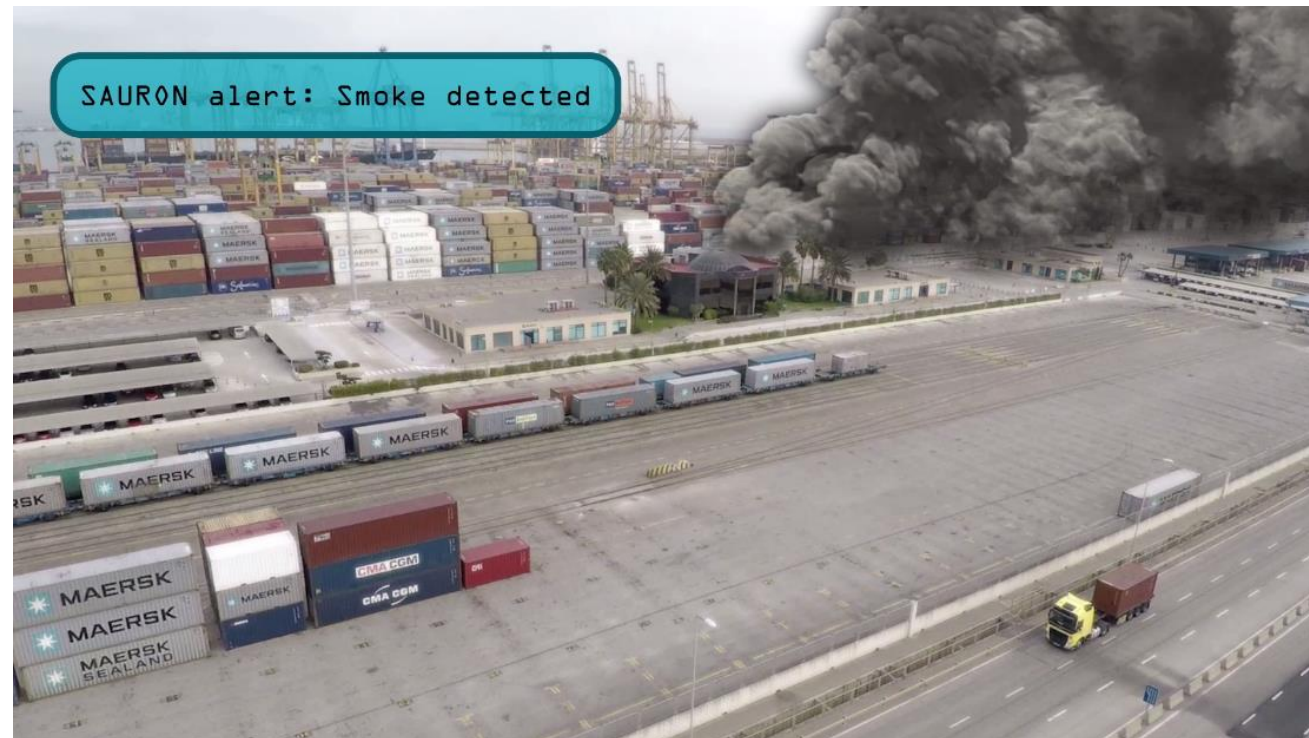
Two terrorist jump the perimeter fence of the CSPV Iberian Valencia terminal and access the yard where activate the bomb



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6. Smoke detected close to the terminal IT room

Terrorists start a fire in the terminal building to escape during the staff evacuation





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7. Terrorists try to escape

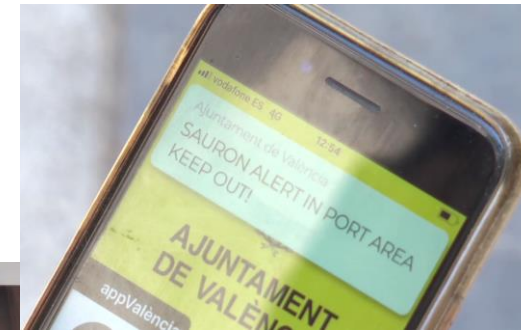
The terrorist try to leave the building, but the face recognition system detects unauthorized people and they are arrested



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8. Bomb detected in the port

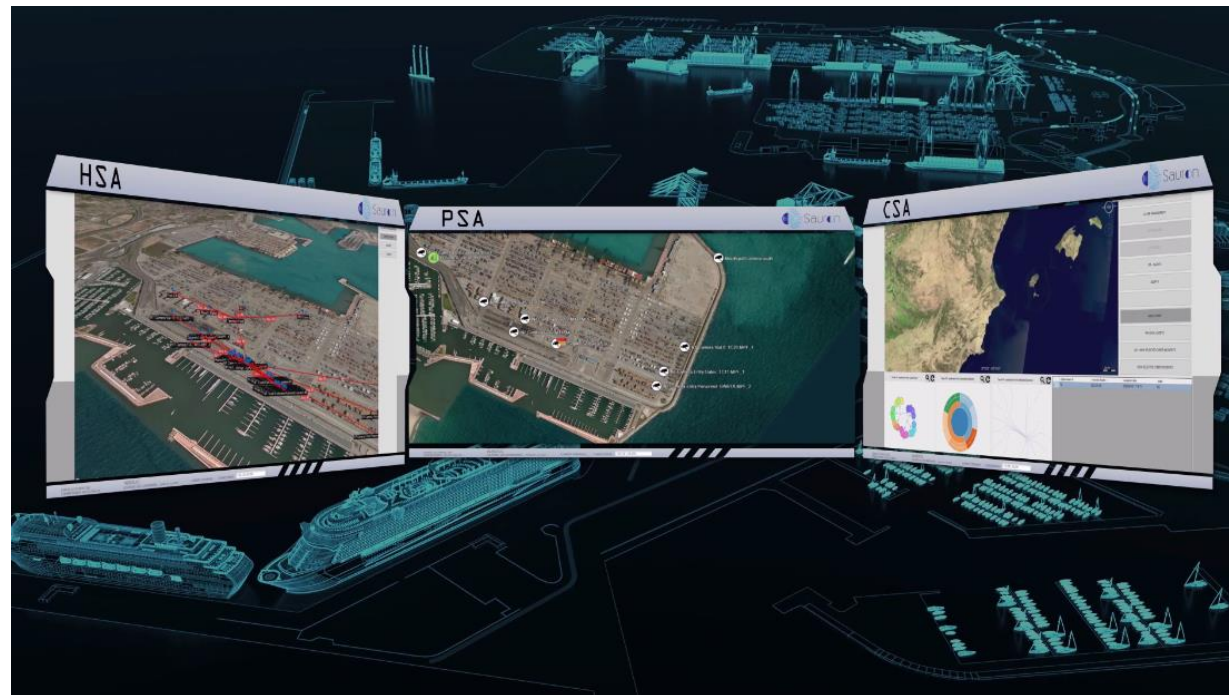
PFSO decides to warn the port vicinity due the severity of the incident

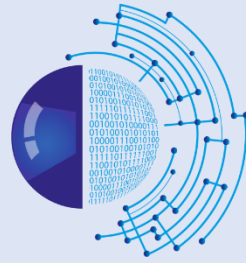


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9. Bomb is detected and deactivated

There is a rapid and coordinated response and the situation is controlled thanks to SAURON





Sauron

Thanks for your attention!

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