sentryo

Cyber Security for the Industrial Internet

Situational Awareness + Anomaly Detection + Security Management

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USE CASE 1 STEEL MILL IN GERMANY

WIRED – Jan 8th 2015

'A cyberattack has caused confirmed physical damage'.

According to the German BSI, hackers had struck an unnamed steel mill in Germany.

They did so by manipulating and disrupting control systems to such a degree that a blast furnace could not be properly shut down, resulting in 'massive' damage.



USE CASE 2 'BLACK ENERGY' MALWARE

ICS CERT - Dec 10th 2015

Experts has identified a sophisticated malware campaign that had compromised numerous industrial control systems (ICSs) environments. They have found multiple variant of the Black Energy malware.

Analysis indicates that this campaign has been ongoing since at least 2011.

Multiple companies have identified the malware on SCADA stations from various vendors including **GE Cimplicity, and Siemens WinCC**.



COMPANY PURPOSE / IDENTITY

sentryo

Protects

the Industrial Internet against cyber risks

- Incorporated in June 2014
- Headquarter: Lyon
- Design, develop & sell cybersecurity solutions
- Funded and managed by serial entrepreneurs & cybersecurity veterans



Award winner

Prix de l'innovation des Assises de la sécurité July 2015



Prize winner

European Institute of Technology Idea Challenge Nov 2014



Award winner

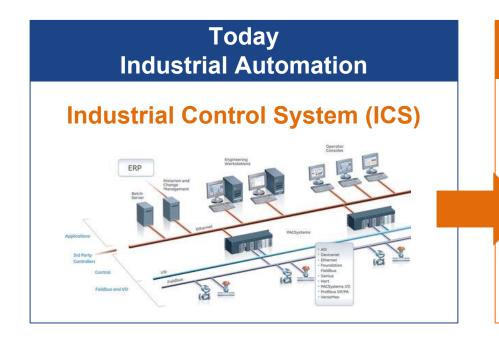
Tremplin Entreprise Sénat / Essec Feb 2015

Member:





WHAT IS THE INDUSTRIAL INTERNET



Tomorrow The Industrial Internet Of things

Industrie 4.0, Smart cities, Smart grids, eHealth..

PRODUCT

#Connected Objects #CloudOriented #"As A Service"

FACTORY

#Manufacturing
#Exploitation Teams

SUPPORT

- #CCTV #HVAC
- SmartBuilding
- SupplyChain
- SubContractors

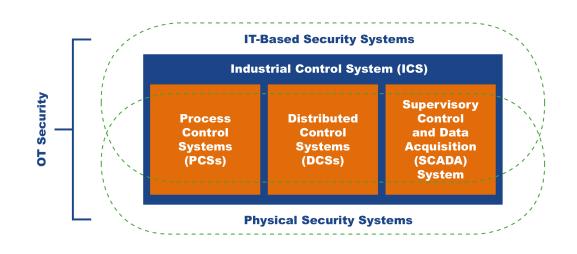
THE PROBLEM (1)

The Industrial Internet is cluttered and vulnerable

Attack surface of existing and upcoming systems is increasing

No cyber security culture in industrial (OT) teams

Upcoming Industrial Internet requirements



THE PROBLEM (2)

IT Cybersecurity solutions do not fit OT environment requirements





THE PROBLEM (3)

Industrial Protocols are complex

- Proprietary and Standard at the same time.
- Focusing on high level of abstraction and indirection
- Multiplexed, mixing physical, serial bus and network data
- Used in flat, unsegmented networks



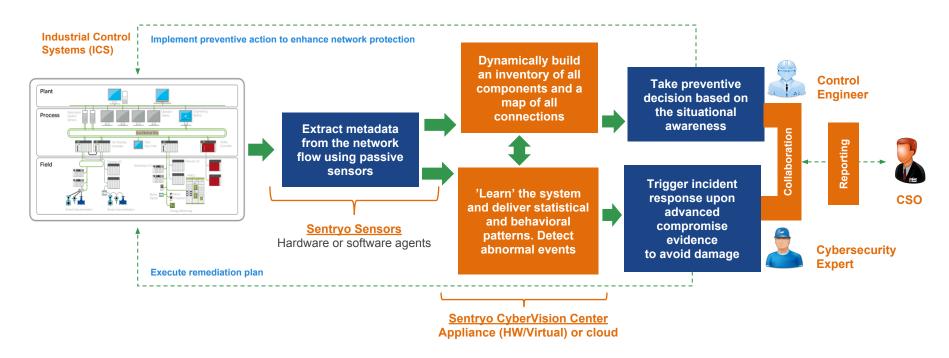
ENTER SENTRYO ICS CYBERVISION

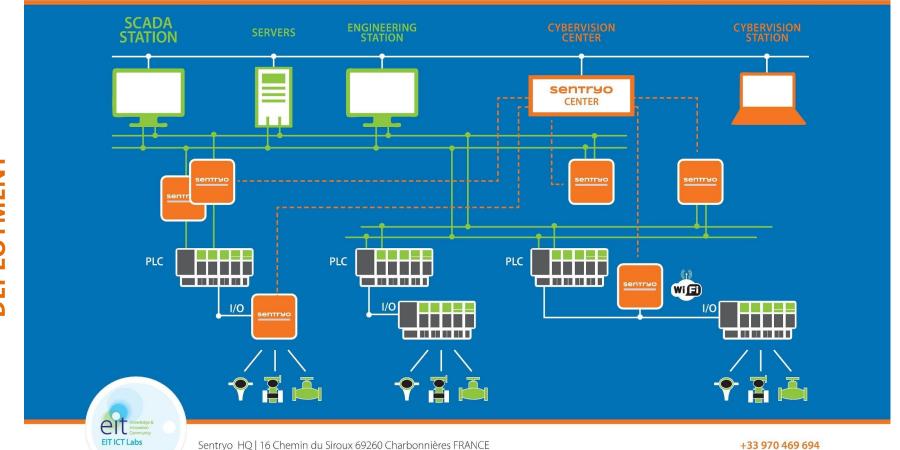
Sentryo ICS CyberVision delivers an operational security capacity to prevent, detect and respond to cyber attacks targeting the Industrial Internet.

- Prevent : Enable Control Engineers reduce the attack surface
- Detect : Detect malicious behaviors and weak signal of cyber attacks...
- Respond : Facilitate incident response by gathering all the informations required by Cybersecurity Expert
- Report & Comply : Provide reports to the Security Officer
- Streamline OT and IT collaboration : Offer a common language and collaboration tool centered on risk management

ICS CYBERVISION KEY FEATURES

The Sentryo ICS CyberVision workbench





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