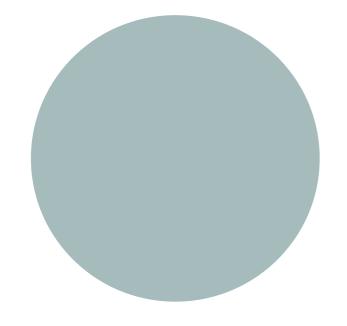




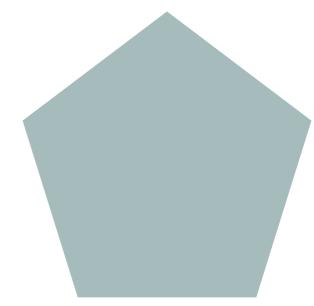
EDF USE CASES

Fabien Lavabre Senior Cybersecurity Expert

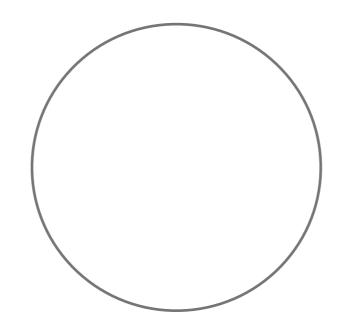
Trusted zone







Airgap hardware birectional







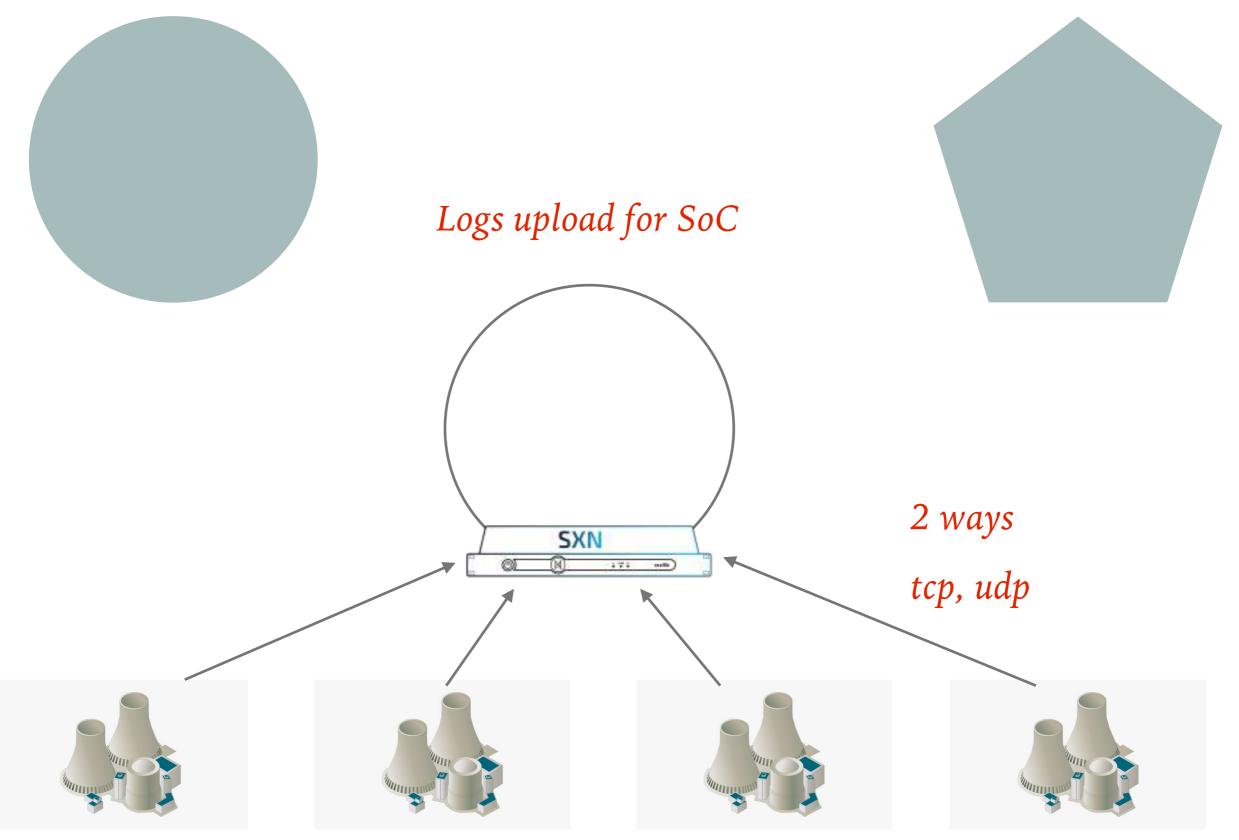




... around 20 nuclear plants

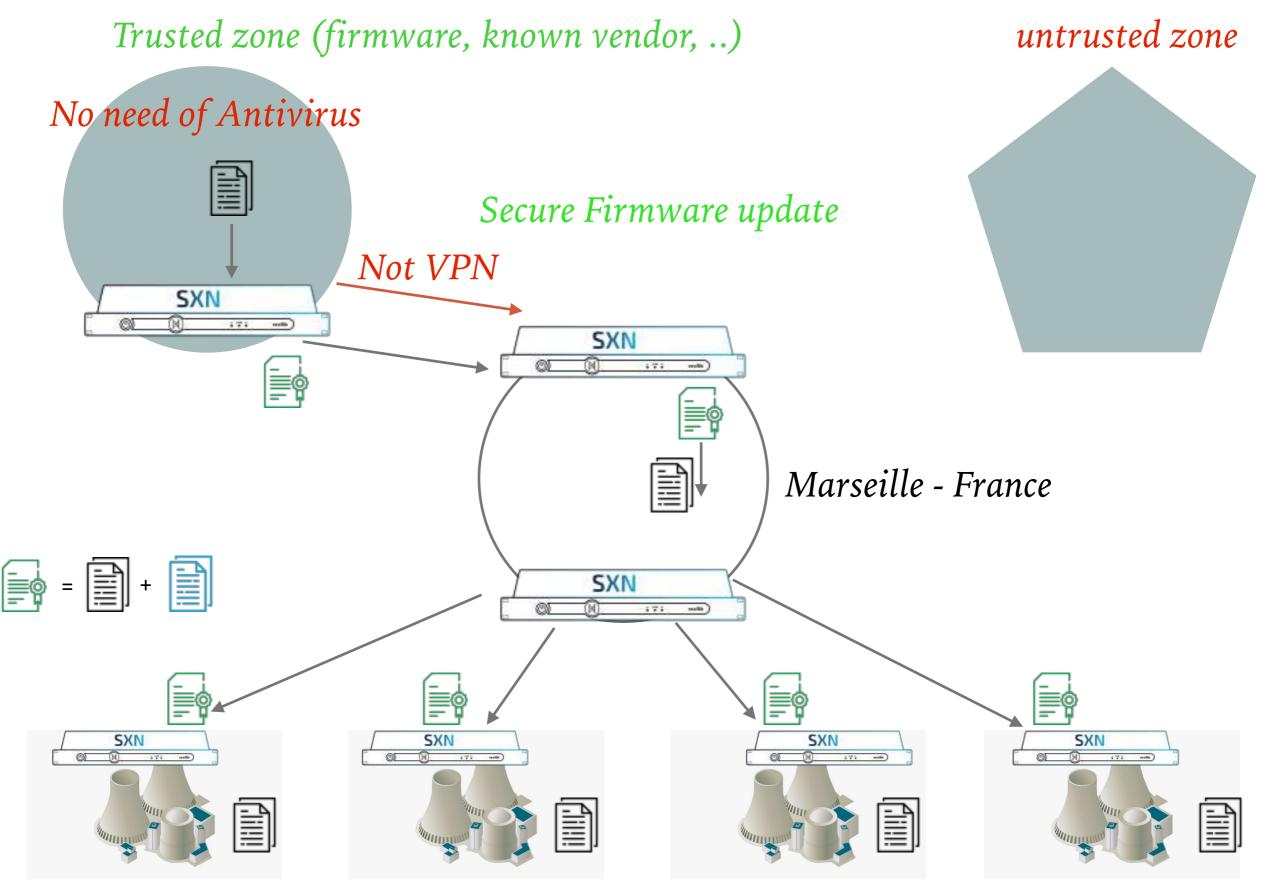






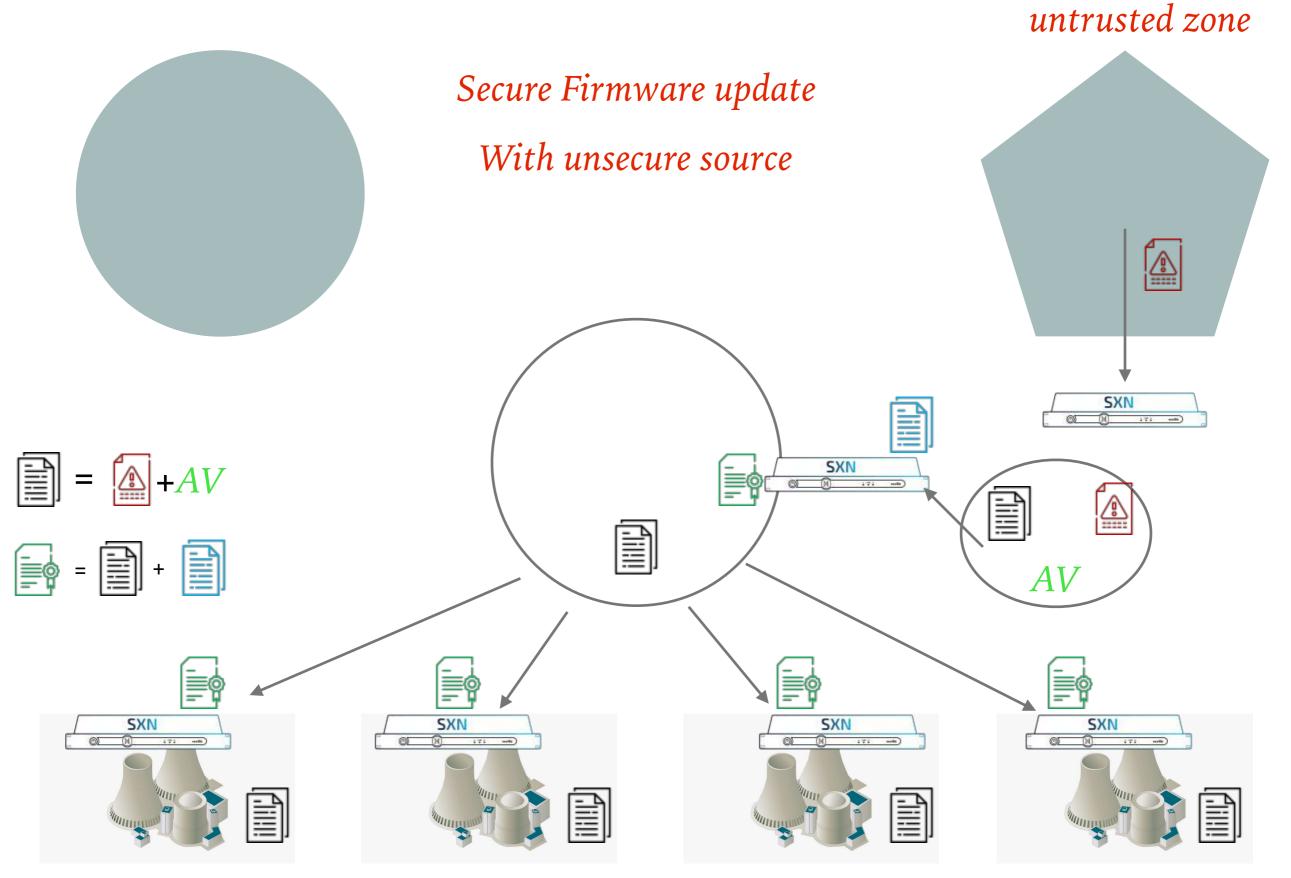
















Secure time transfer from a time server (NTP)









Secure video transfer from a CCTV







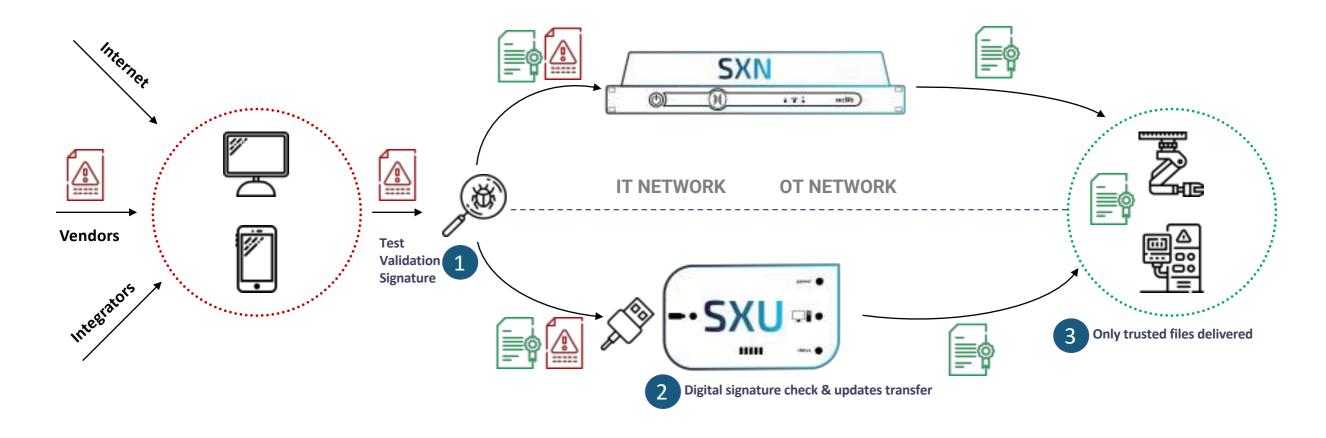




EDF CASE STUDY : Increasing both performance and reliability of the update process of industrial assets

PROBLEM : Setting up a solution for Network & USB file exchanges that is both highly-secure and lasting

PROBLEM: Setting up a solution for Network & USB file exchanges that is both highly-secure and lasting



SOLUTION:

- ☐ Use of Secure Xchange Network & USB
- □ 100% Network & USB isolation
- ☐ Only trusted files are transferred
- ☐ Immune to Zero Day Exploits

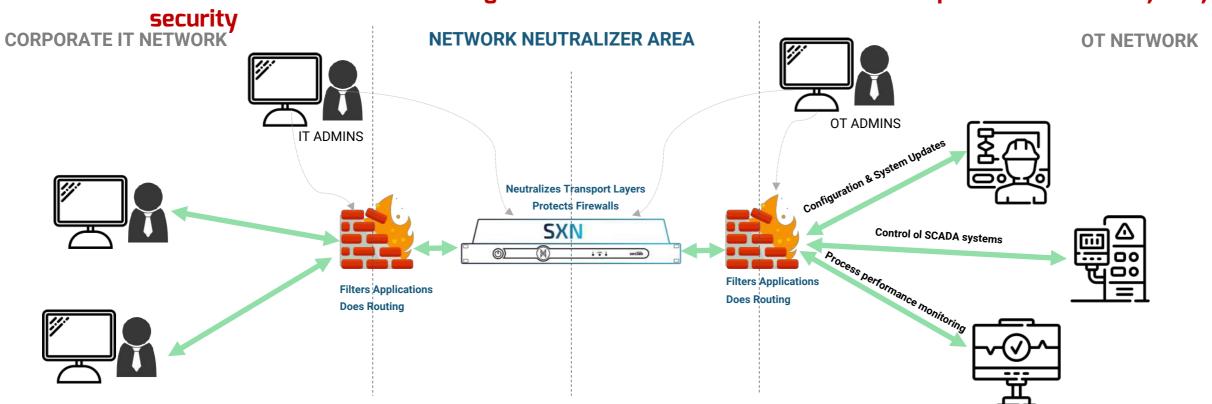
BENEFITS:

- ☐ Update process easier and more robust
- ☐ Easy to deploy : Zero impact on architecture
- ☐ Easy to maintain & administrate
- **☐** Business Continuity Plan ready



SNCF CASE STUDY: Improving process performance between nationwide IT & OT Networks

PROBLEM: More DATA exchanges between IT & OT Networks could compromise both safety & cyber



SOLUTION:

- ☐ Secure Xchange Network (SXN) between 2 Firewalls
- ☐ Hardware-enforced Network Neutralization by SXN
- ☐ Firewalls protected by SXN
- ☐ DATA Filtering done by Firewalls and / or SXN

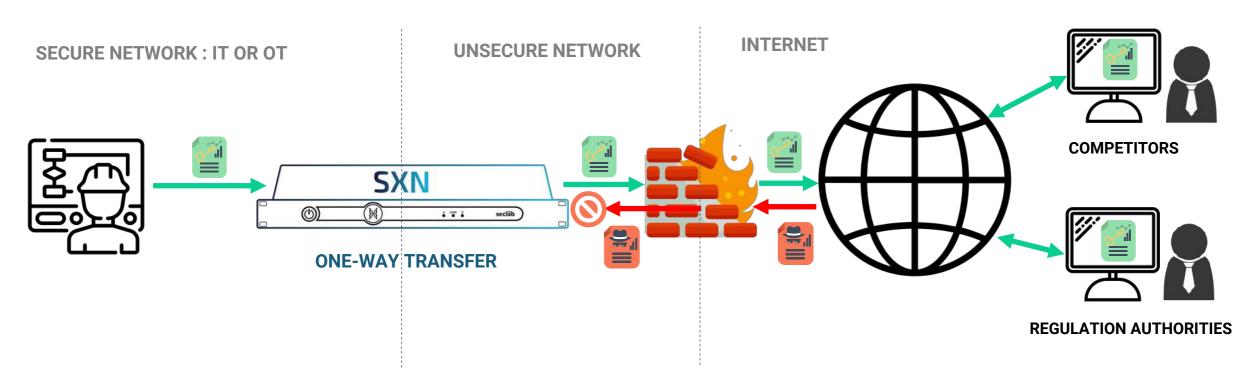
BENEFITS:

- □ Better IT/OT process performance without compromising security
- ☐ Easy to maintain & administrate
- **☐** Decentralized Governance with common goals



SNCF CASE STUDY : Complying with laws & regulations by making accessible some data to competition

PROBLEM : Sending DATA to third-parties could compromise the Internal Network

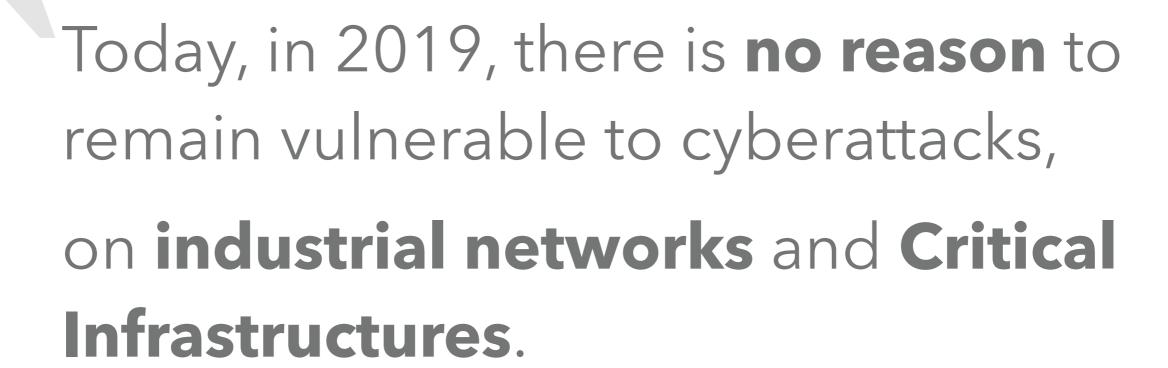


SOLUTION:

- ☐ Secure Xchange Network behind legacy firewall
- ☐ Hardware-enforced Network Isolation
- ☐ Direction Control : One-Way Transfer

BENEFITS:

- ☐ Compliance without compromising security
- ☐ Easy to deploy : Zero impact on architecture
- ☐ Easy to maintain & administrate
- □Immune to Zero Day Exploits



— Xavier Facélina



