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-cybersecurity-

ICS CYBERSECURITY

ENERGY – TRANSPORTATION – CRITICAL
INDUSTRIES – DEFENCE & GOVERNMENTS

SECLAB ELECTRONIC AIR GAP



**BEST PRODUCT
FOR NETWORK
SEGREGATION**



National Renewable Energy Laboratory
of the United States
Department of Energy

Nine-Layer Security Architecture

Layer	Security Application	Seclab Deneilis	BlackRidge TAC	Cisco Firewall + Switches	NexDefense Integrity	N-Dimension N-Sentinel	Albeado PRISM
GWAC 5-6 Business		↑					
GWAC 4 Semantic							
OSI 7 Application							
OSI 6 Presentation							
OSI 5 Session							
OSI 4 Transport							
OSI 3 Network							
OSI 2 Data Link							
OSI 1 Physical							

Not a PC!

**3 parts custom made
cybersecure electronic**



DEDICATED

SECLAB is a cybersecurity company dedicated to meeting the integrity and availability needs of connected industries and critical infrastructures



CERTIFIED

SECLAB products are certified by the French Cybersecurity Agency (ANSSI) for being used in critical infrastructures (“CIIP Law”)



DEPLOYED

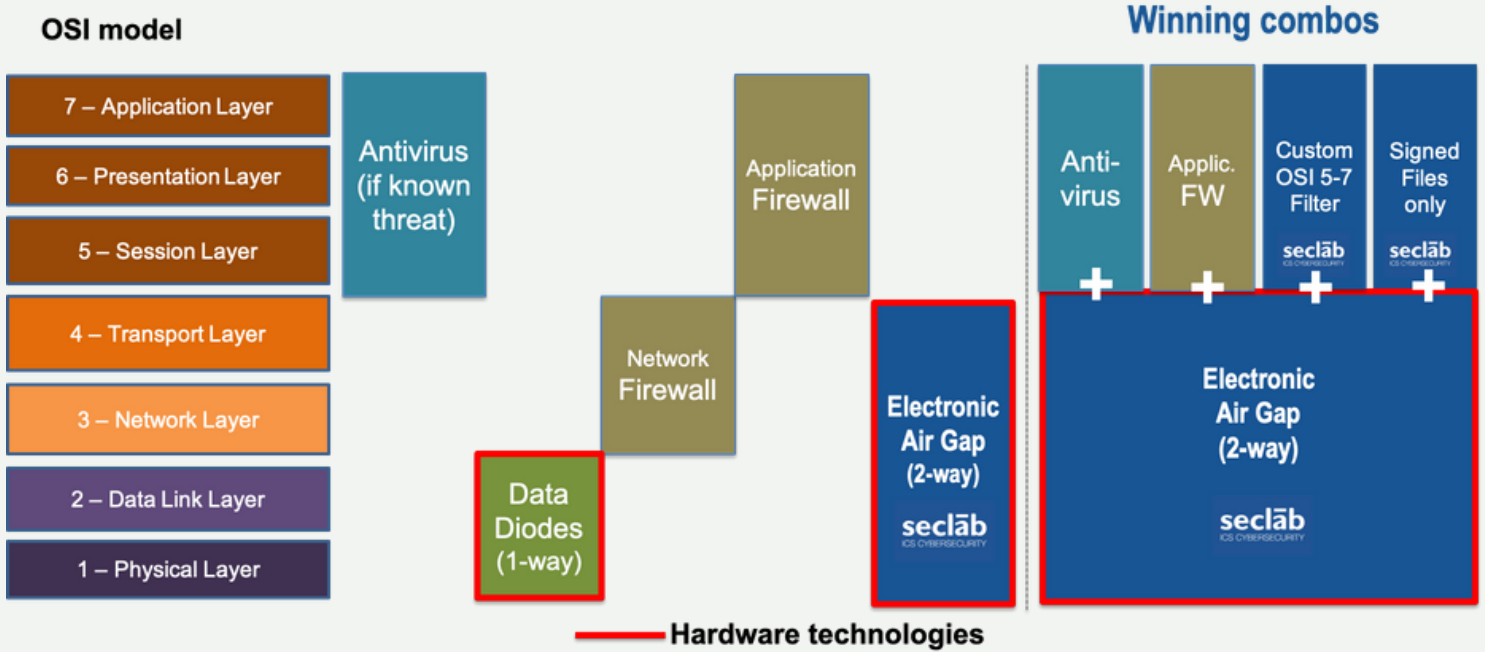
SECLAB products are deployed on critical systems and other french nationwide infrastructures (Energy, Railways, Telecoms, Défense, Government Institutions)



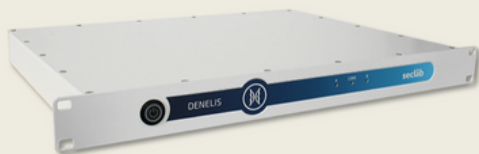
TYPICAL USE CASES OF SECLAB ELECTRONIC AIR GAPS

- Complying with laws & security requirements for Operators of Essential Services
- Ensuring your antimalware policy is applied on all your industrial assets
- Receiving genuine software updates from your vendors on your critical networks
- Doing remote maintenance, monitoring and cyber-supervision

THE ONLY HARDWARE-BASED SYSTEM ENABLING 2-WAY COMMUNICATIONS



Electronic protection against cyber attacks



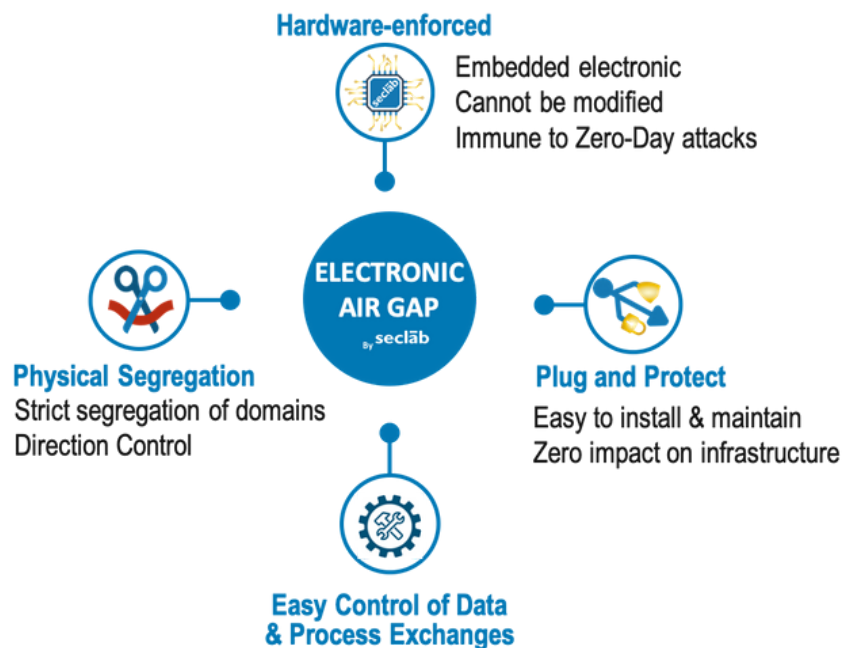
SECURE XCHANGE NETWORK

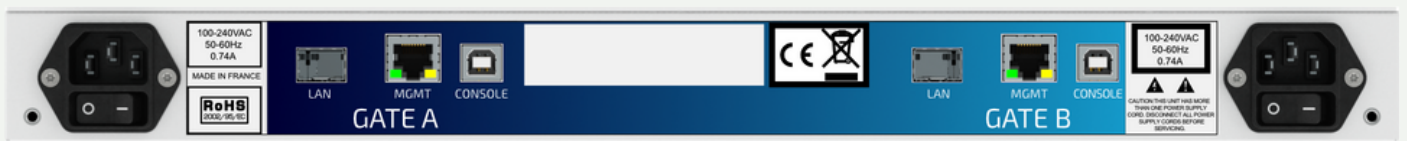
Functionalities of a firewall or a data-diode. Security level of an Air Gap.



SECURE XCHANGE USB

File exchange without risk of infection via usb.





SECURE XCHANGE NETWORK

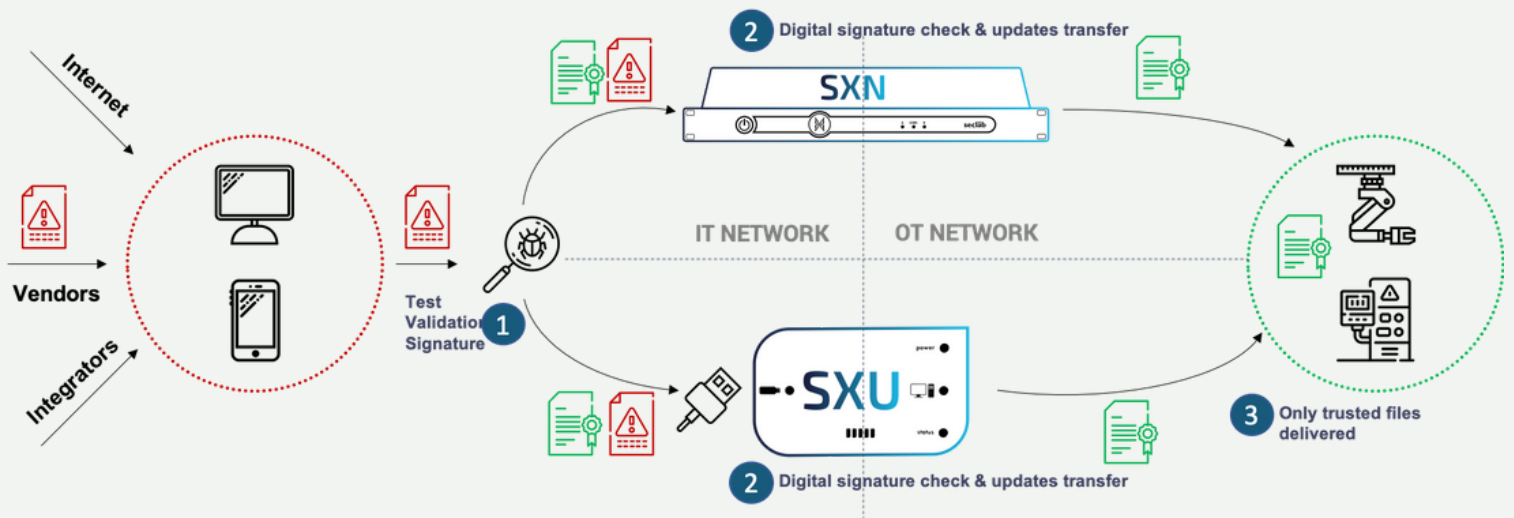
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- **Secure Xchange Network** role is to **Neutralize non expected content** between 2 networks
- It's an **Appliance** (1U)
- Its core features are :
 - **Destroying the Transport layers**, of any protocol and **recreating a trusted transport layer**
 - **Preventing any attack** at transport level, by having a chip-based architecture (vs SW)
 - **Providing Direction Control**
 - **Content analysis / filtering**, or chaining other products for such (Ex: Firewall)



SECURE XCHANGE USB

- **Secure Xchange USB** role is to **Neutralize non expected content** between a **USB mass-storage device** and a **host**.
- It's a USB Appliance (2,5" HDD size)
- Its core features are :
 - **Destroying the USB layer**, and recreating a trusted USB layer
 - **Preventing any attack** at USB layers level
 - **Providing Direction Control**
 - **Files filtering and / or chaining other products** for analysis (Ex: Antivirus)



DEPLOYMENT OF BOTH SECURE XCHANGE NETWORK & USB

SECURE XCHANGE

- Securing System Configurations & Software Updates
- 100 % Network segmentation & segregation
- Only Trusted Files are transferred
- Secure Xchange USB protects USB ports of non-connected systems
- USB can be used with the exact same security policy as a risk coverage of any unavailability of the network

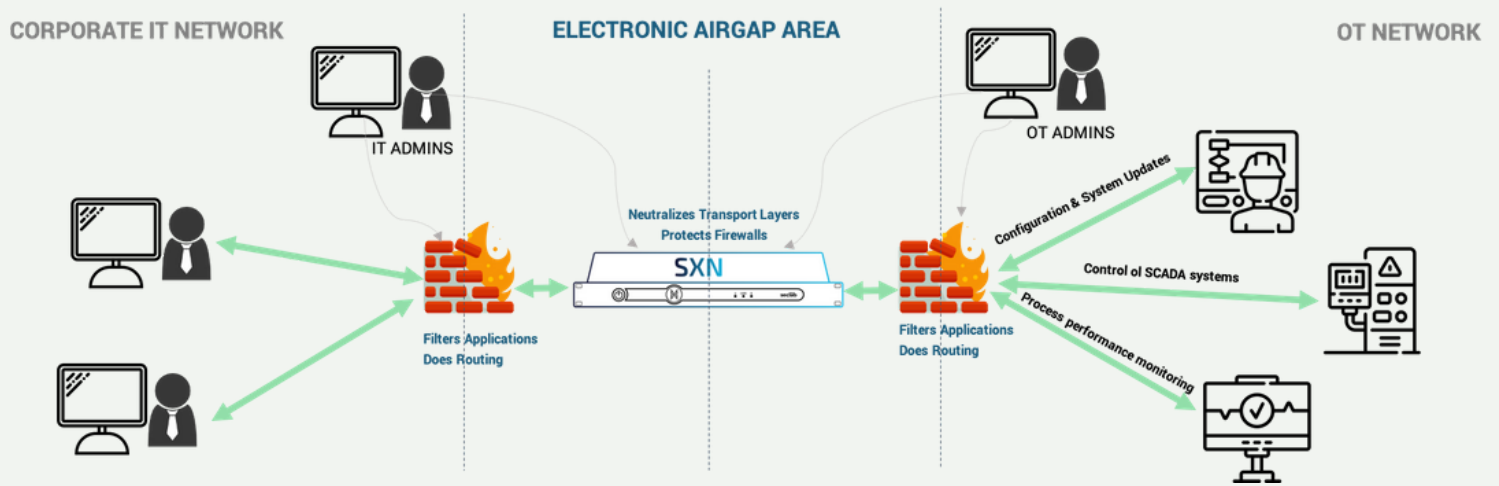
Challenge

Protect the safety & reliability of critical systems within Nuclear Sites while allowing system configuration and software updates from different sources

Benefits

- 100% Secure
- Easy to deploy
- Easy to maintain
- Business Continuity Plan

CASE STUDY: ENABLING SECURE COMMUNICATIONS BETWEEN IT AND OT NETWORKS



DEPLOYMENT OF SECURE XCHANGE NETWORK in addition to firewalls

SECURE XCHANGE

- Securing IT-OT Data Exchanges
- 100 % Network segmentation & segregation
- Firewalls protected by SECLAB AIR GAP technology

Challenge

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

Benefits

- Better IT/OT Process performance without compromising security
- Easy to maintain and administrate

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