





NIS2 AND SUPPLY-DEMAND DYNAMICS

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(ESPECIALLY IN OPERATIONAL TECHNOLOGY) ck;line-height:27px;

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WHO ARE WE?

JOHAN DE WIT

JEROEN GAISER

WHAT IS OPERATIONAL TECHNOLOGY (OT)?

(AND WHY TALK ABOUT IT REGARDING NIS2?)



ICS, OT, SCADA, PCS, DCS, IACS: Proces Automation



OT:	Operational Technology
ICS:	Industrial Control System
ACS:	Industrial Automation and Control System
SCADA	Supervisory Control And Data Acquisition
DCS:	Distributed Control System
PCS:	Process Control System
PLC:	Programmable Logic Controllers
BMS:	Building Management System



The *three* components of IT security













NIS2 GOAL

INCREASING EU-WIDE CROSS SECTORAL AND TRANSNATIONAL RESILIENCE TO CYBERRISK

NIS2 PLACE IN EU CYBERSTRATEGY

NIS2 (demand) / Deadline: October 2024



- NIS2 is part of the broader EU cybersecurity strategy
- Different aspects to increasing resiliency
- Start with the demand side: the user of digital technology

CREATING DEMAND: THE NECESSITY OF CYBER RESILIENT OT

- OT IS SEEN AS A VIABLE TARGET IN GEOPOLITICAL CONFLICTS
- IT TAKES A LOOOONG TIME TO CHANGE THINGS IN OT (SO START ASAP)
- CYBER RESILIENCE IS NOT WELL RECOGNIZED YET AS A RISK CATEGORY IMPACTING SAFETY/FUNCTION
- SECURITY BY DESIGN FOR OT IS A NEW PRINCIPLE FOR MOST
- HOW DO YOU DEFINE CYBERSECURITY REQUIREMENTS IN CONTRACTS THAT MAY SPAN DECADES?
- HOW DO YOU AUDIT AND REGULATE CYBERSECURITY IN OT (THIS IS A FAIRLY NEW SKILLSET)
- THE (POSSIBLE) EFFECT OF REGULATION ON ENFORCING CYBERSECURITY REQUIREMENTS INTO CONTRACTS



Cyber Security to protect:



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Supply – Demand Cooperation:





CREATING AND SELLING SECURE SOLUTIONS

- OT AND IT ARE MOST OFTEN MANAGED BY DIFFERENT DEPARTMENTS
- IT DEPARTMENTS DO NOT ALWAYS UNDERSTAND THE DIFFERENCES
- OT DEPARTMENTS (OPERATIONS) ARE USUALLY LESS 'CYBER SECURE AWARE'
- MINIMAL OT CYBERSECURITY DEMANDS IN TENDERS
- THEREFORE, THE SUPPLY SIDE (IN GENERAL) DOES NOT OFFER CYBERSECURITY
- NIS2 WILL LEVEL THE PLAYING FIELD
- CYBERSECURITY FOR OT IS NO LONGER OPTIONAL!



THE POTENTIAL EFFECT OF NIS2

- CREATE A LEGAL INCENTIVE TO IMPLEMENT CYBERSECURE SOLUTIONS
- CREATE MORE AWARENESS TO INCLUDE OT IN CYBERSECURITY POSTURE



LOOK-AHEAD TO CYBER RESILIENCE ACT (CRA)



CYBER RESILIENCE ACT

New EU cybersecurity rules ensure more secure hardware and software products

#DigitalEU #SecurityUnion #Cybersecurity

SEPTEMBER 2022 – UPDATED DECEMBER 2023

#SOTEU

A first ever EU wide legislation of its kind: the **Cyber Resilience** Act introduces mandatory cybersecurity requirements for hardware and software products, throughout their whole lifecycle.



Manufacturer's obligations



Cybersecurity is taken into account in **planning, design, development, production, delivery** and **maintenance** phase;



All cybersecurity risks are documented;



Clear and understandable instructions for the use of products with digital elements;

Once sold, manufacturers must ensure that

for the duration of the support period,

vulnerabilities are handled effectively;



Security updates to be made available to users for the time the product is expected to be in use.





Manufacturers will have to **report actively exploited vulnerabilities and incidents**;





THANK YOU

Contact info & QR to LinkedIn