

Come rispondere alle nuova normativa europea NIS2

13/09/2024 HYDROGEN EXPO 2024 Piacenza



ABB Ability™ Cyber Security Services

Industrial companies face elevated cyber security risks

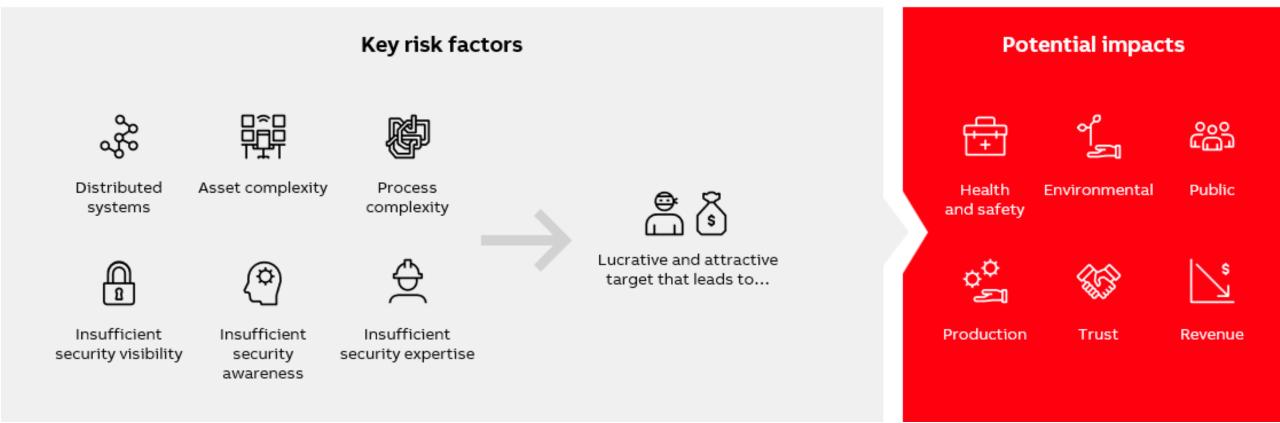
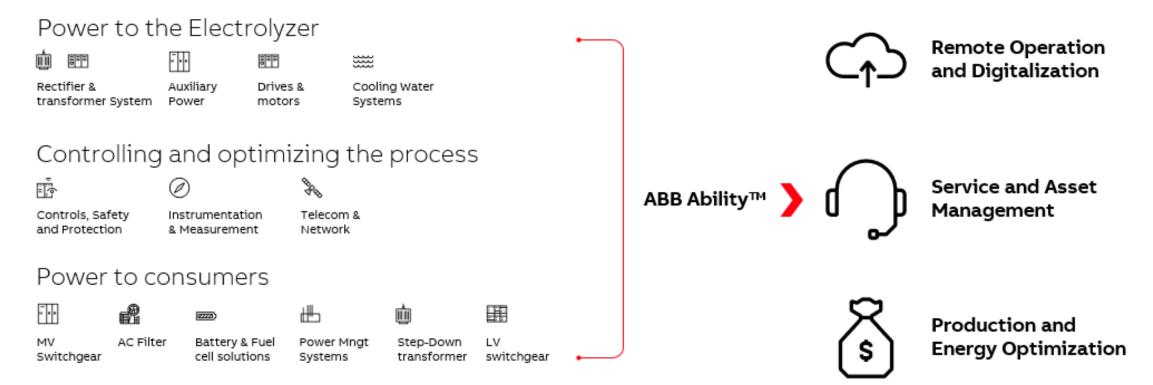




ABB Energy Industries Division

Solutions maximizing the value of the hydrogen

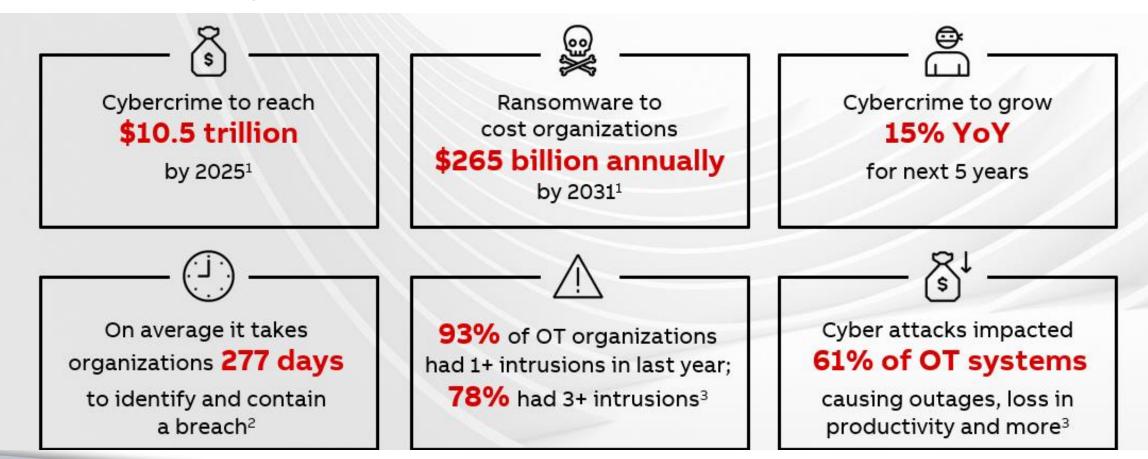


The successful operation of a hydrogen plant is about efficient energy and process management



State of Cyber

Trends and Challenges





eSentire: 2022 Official Cybercrime Report, written by Cybersecurity Ventures IBM: Cost of a Data Breach 2022 Report, IBM and Ponemon Institute Fortinet: 2022 State of Operational Technology and Cybersecurity Report

Threat Landscape

Some of the Most Common Threats

- . Gartner (2022). Gartner identifies top security and risk management trends for 2022.
- Fortinet (2023). Global Threat Landscape Report
- SOSAFE (2023). Cybercrime Trends 2023
- Allianz (2023). Cyber security trends 2023



Phishing can now hide almost anywhere, emails, social media, messaging apps, or even video games³



30% of extortion cases

were observed in the manufacturing industry⁴



 \triangle

By 2025, 45% of organizations worldwide will experience **digital supply chains attacks**¹

The **ransomware** rollercoaster continued, ending 1H 2023 13x higher than it began²

NIS 2 directive States applicability

From critical Infrastructure to much broader Industry coverage



Scope

- Large parts of industry are addressed, not limited to critical infrastructure
- Very small enterprises are excluded
- There will be no longer any threshold values like in NIS1
- Small companies (up to 49 employees and up to €10 million turnover/balance sheet) are excluded. Digital infrastructures are regulated regardless of their size



Fines

- Essential entities : in case of violation, fines of up to 10 million euros or 2% worldwide annual turnover may be imposed
- Important entities : in case of violation, fines of up to 7 million euros or 1,4% worldwide annual turnover may be imposed

 EU States where NIS2 will be applicable
 Non-EU States, where NIS2 could be applicable depending on Customer dependency to EU



Critical sectors in the EU Bolt is introduced in NIS2 (Scope Extends)



Essential Entities

- Energy: electricity, oil, gas, heat, hydrogen
- Health: providers, labs, R&D, pharma
- Transport: air, rail, water, road
- Banks and financial markets
- Water and wastewater
- Digital: IXP, DNS, TLD, DC, CSP, CDN, TSP, MSP, MSSP
- Space
- Public administration

Important Entities

- Postal and courier
- Waste management
- Chemicals
- Food
- Manufacturing: technology and engineering
- Digital services: social, search, markets





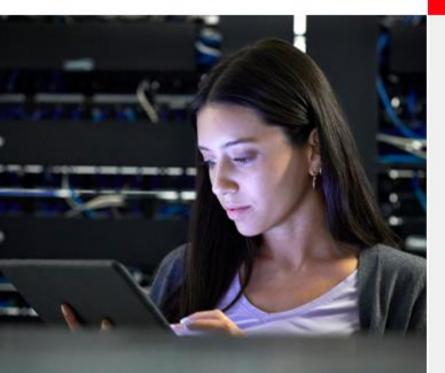
NIS 2 directive Operator duties

Four obligations are imposed on entity operators



Standards (Art. 22)





Registration (Art. 25)



Reporting (Art. 20)

NIS2 – Art. 18/20 – What do suppliers and operators have to do now?

Cybersecurity risk management measures and Reporting obligations

	Europa	ISO	Operator	Supplier
£	NIS 2.0, Art. 20, paragraph 1	ISO 27001:2015, Cape. 6.1, 8.2 and 8.3	Immediate notification [NIS 2.0: within 24 hours] of significant disruptions in the information systems to authorities [NIS 2.0: and customers]	Contractual commitments of resources and response times; Support through technical solutions that have been specially tested and approved for the information systems used • <u>ABB Care Framework</u> • Incident Response • Cyber Security Network Anomaly Detection, with the parthnership of <u>Nozomi</u> or <u>Forescout</u> • <u>Cyber Security Event Monitoring</u>
	NIS 2.0, Art. 18, Paragraph 2b	ISO 27002:2017, Cape. 16	Definition and documentation of a process for the prevention, detection and management of IS incidents for information systems; effective and orderly response in focus Use of attack detection systems	 Support through technical solutions that have been specially tested and approved for the information systems used <u>Cyber Security Malware Protection</u> <u>Cyber Security Application Allowlisting</u> Cyber Security Network Anomaly Detection, with the partnership of <u>Nozomi</u> or <u>Forescout</u> <u>Cyber Security Event Monitoring</u> <u>Cyber Security Workplace</u>



Source: Draft NIS 2.0 (26.11.2021), https://data.consilium.europa.eu/doc/document/ST-14337-2021-INIT/en/pdf

ABB Industrial Security Domain Expertise

Trusted Partner – People and Processes



+160 Professionals

Industrial cyber security engineers & certified specialists

Certifications

- Security Development Lifecycle Assurance (SDLA) designated organization IEC 62443-4-1
- Certified Service Provider Certification Maturity Level 2 IEC 62443-2-4
- System Security Assurance (SSATM) Security Level 1 IEC 62443-3-3
- GSEC
- GCIH
- GSTRT
- GICSP
- GCFA
- TUV Cybersecurity
- CCNA
- CCNP Security

- ISA/IEC 62443 CFS
- ISA/IEC 62443 CRS
- ISA/IEC 62443 CDS
- ISA/IEC 62443 CMS
- ISA/IEC 62443 CE
- CISSP
- CISM







How to meet today's cyber security challenges

Implement a defensible architecture

Control communication between devices, zones, and levels.

Deploy foundational security

Deploy protection against malware and known vulnerabilities.



Monitor for malicious activity

Detect malicious activity early and give yourself time to respond.



The ICS Risk Reduction Roadmap



The Industrial Cyber Security Journey

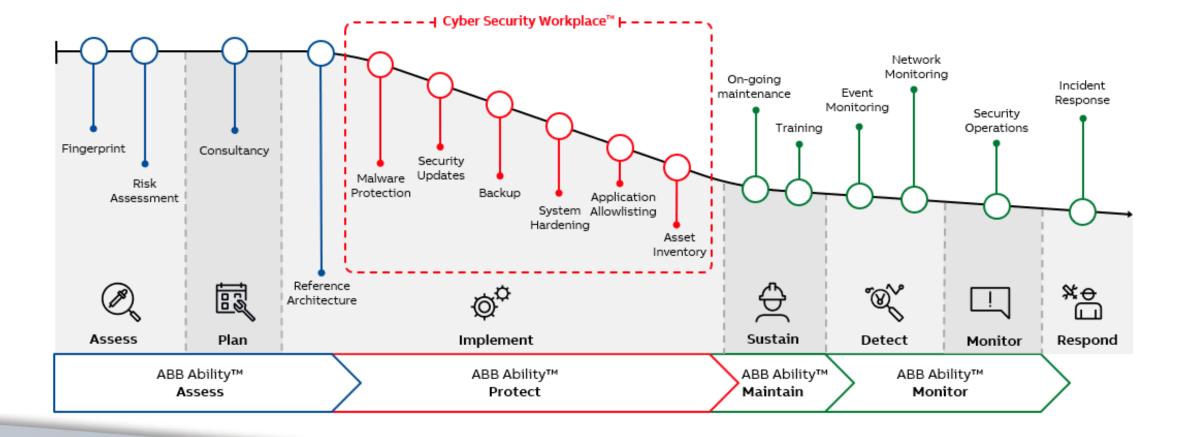




ABB Ability™ Cyber Security Workplace Simplified Security for the Modern World

ABB My Central System AC450 Marrise for certification text (S1041917) - Advi						
> SID35108 General Infor	rmation Health	Security Inventory Utilit	ies Documentation	0 0	⊽ 🛢 🖄 Z)	yta.wawrzenczyk1@de.a
Security Updates Malware Pr	rotection Backup	Node Overview System Tools				
NODE DETAILS		SECURITY UPDATES	MALWARE PROTECT	TION	BACKUP	
Name 6032PriASCS	5		Agent version	5.0.5.658	NAME	LAST RUN
800xA role Server		Update failed	1	VSE 8.8.0.1982	ImageBac	ckup 2020-07-11 19:34
FQDN 6032Client.80 Description Lorem ipsum		Update needed	10	9438.0000	BackupJo	b 2020-07-11 19:34
		Update installed	12		BackupJo	b 2020-07-11 19:34
C ⁴ Reboot node		10			BackupJo	ob 2020-07-11 19:34
 Force group policies update 		Install security updates and reboot Force WSUS check-in			Start back	rup job
TASK	STATE	STATE DETAILS		STA	ARTED	FINISHED
	STATE	STATE DETAILS Error(s) occured during execution			ARTED 20-07-11 19:34:11	FINISHED 2020-07-11 19:34:11
TASK				20		
TASK ForceWsusCheckin	Failed	Error(s) occured during execution		20	20-07-11 19:34:11	2020-07-11 19:34:11
TASK ForceWsusCheckin UpdateNode	Failed Finished	Error(s) occured during execution Node 6032PriASCS has beed updated		20	20-07-11 19:34:11 20-09-16 09:00:47	2020-07-11 19:34:11 2020-09-16 09:00:47
TASK ForceWsusCheckin UpdateNode UpdateNode	Failed Finished	Error(s) occured during execution Node 6032PriASCS has beed updated		20	20-07-11 19:34:11 20-09-16 09:00:47	2020-07-11 19:34:11 2020-09-16 09:00:47 2020-09-25 05:43:25
TASK ForceWsusCheckin UpdateNode UpdateNode	Failed Finished	Error(s) occured during execution Node 6032PriASCS has beed updated		20	20-07-11 19:34:11 20-09-16 09:00:47	2020-07-11 19:34:11 2020-09-16 09:00:47 2020-09-25 05:43:25

- Makes cyber security accessible to everyone
- Reduce risk with built-in recommended actions
- Automates security patching
- All in one console



လို့









ABB Ability™ Cyber Security Workplace Security Controls Dashboard

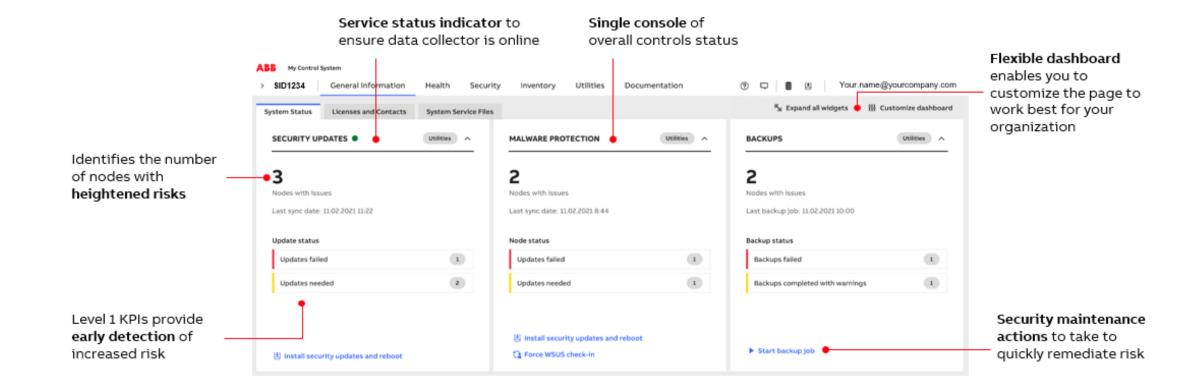




ABB Ability™ Cyber Security Workplace

Identify your Assets with Cyber Asset Inventory

Cyber Asset Inventory

- Automatically identifies and captures detailed information from cyber assets
- Provides updated information on control networks
- Non-intrusive system
- Facilitates compliance with standards

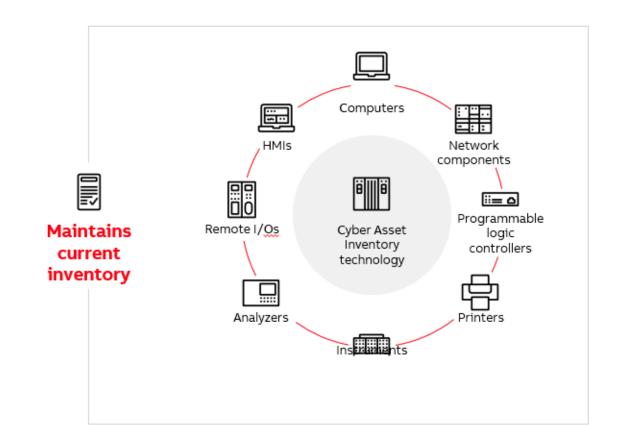




ABB Ability™ Cyber Security Workplace

Demo

Topics:

- Endpoint protection
- Backup solutions
- Patching
- Remote access
- Inventory

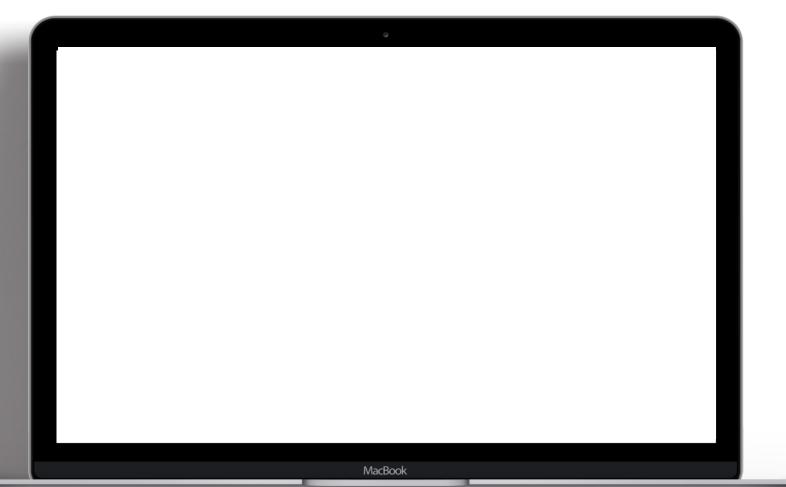




ABB Ability™ Cyber Security Workplace Architecture Fleet View

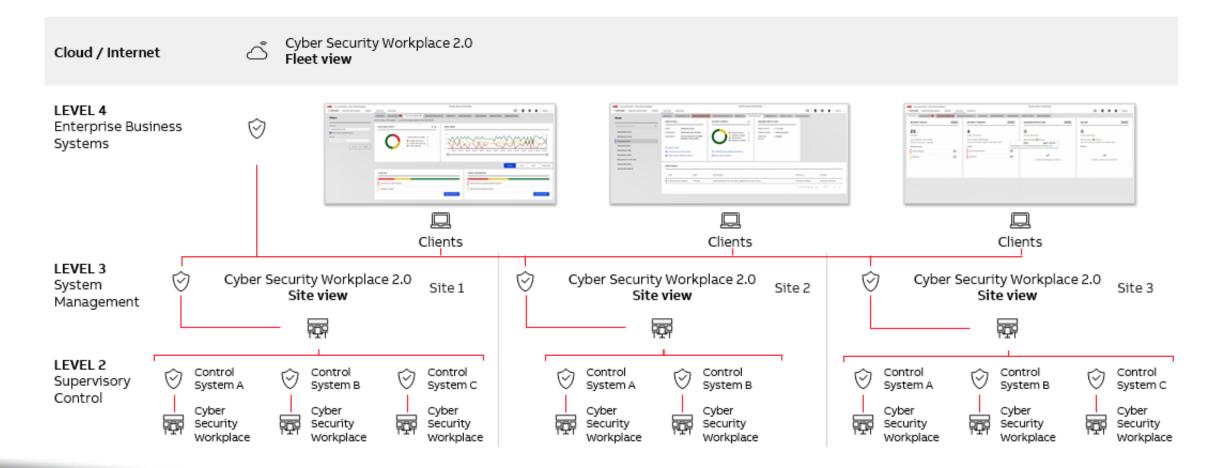




ABB Ability™ Cyber Security Workplace Architecture Fleet View Partnership



Collaboration with Nozomi and Forescout to deliver the most comprehensive threat intelligence solutions

Integration with IBM security platform for digital threat visibility



Situational awareness

Difference between event and network monitoring

	Event Monitoring Radar	Network Monitoring
Input data	System and device events	Network traffic
Detection	Directly - Based on defined rules	Indirectly - Based on heuristics
False positives	Low	High
Specificity	High - Detection is based on actual events	Low - Detection is based on score and confidence
Coverage	Supported systems	Any network-based system
Scope	Narrow - Only what is defined in the use-cases or manually detected	Wide - Anything that is abnormal
Technology	 Security Information and Event Management system (SIEM) Event collection technology Use-cases & Runbooks 	 Network monitoring solution Network TAPs or mirroring of network data
Example	Footsteps heard in the kitchen in the middle of the night following the opening of a window.	Noises are heard in the kitchen in the middle of the night when it is usually quiet.



Grazie per la Vostra partecipazione e attenzione



ASSOCIAZIONE IMPRESE ITALIANE DI **Strumentazione**



data

Oggetto

20