

OSCAL's Role in European Cybersecurity Public Policy

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What role does automated compliance play in today's European cybersecurity policy landscape?

How can OSCAL help?



EU Policymakers Have Been Very Active

In Brief

Multiple pieces of legislation touching upon cybersecurity were proposed in the last few years and some already entered into force and are being implemented.

Policies intersections and overlaps are growing, making compliance more challenging.



NIS2 Directive



EU Space Law



POLICY PULSE

Policy Monthly Update

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Cyber Resilience Act



Europe's Digital Infrastructure



Cyber Solidarity Act



5G Toolbox



Cybersecurity Act



DORA



AI Act



EU Digital Identity





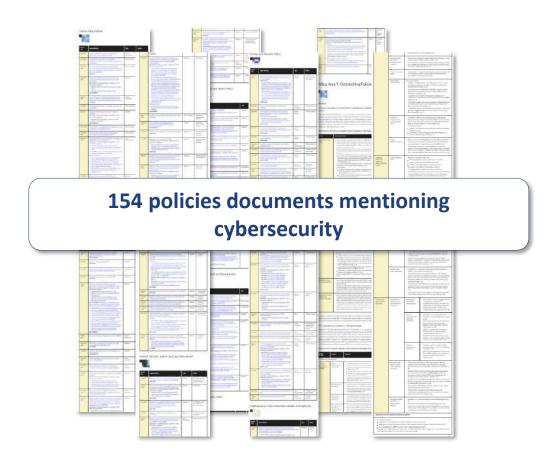
Radio Equipment Directive

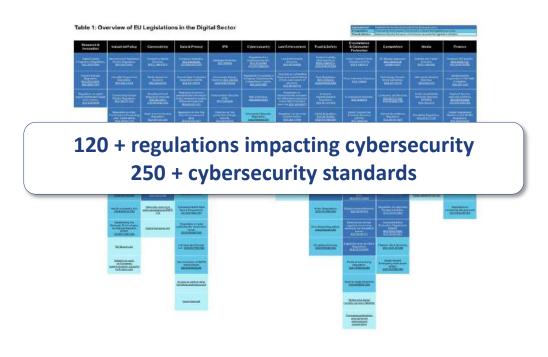


Digital Networks Act



Cybersecurity-related Policies Proliferate





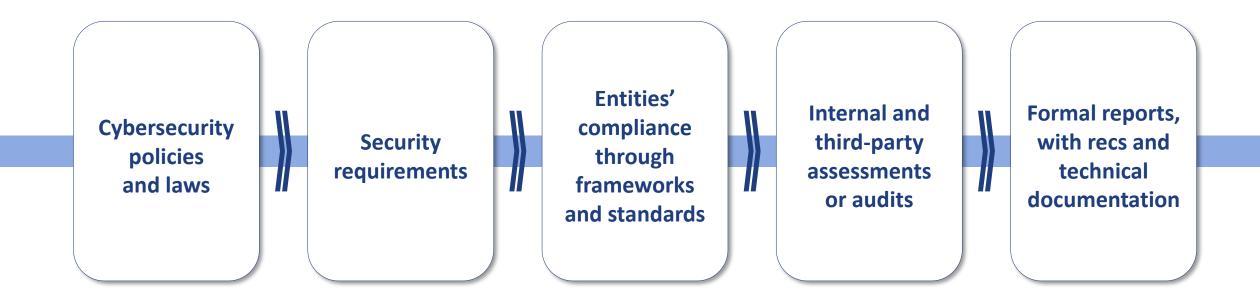
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Context

From Cybersecurity Policies to Audits in Brief





What does it look like concretely?



Cybersecurity policies and laws set high-level security domains or requirements

NIS2 Directive

DIRECTIVE (EU) 2022/2555 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 14 December 2022

on measures for a high common level of cybersecurity across the Union, amending Regulation (EU) No 910/2014 and Directive (EU) 2018/1972, and repealing Directive (EU) 2016/1148 (NIS 2

Directive)

[...]

Article 21

Cybersecurity risk-management measures

The measures referred to in paragraph 1 shall be based on an all-hazards approach that aims to protect network and information systems and the physical environment of those systems from incidents, and shall include at least the following:

- (a) policies on risk analysis and information system secur.
- (b) incident handling;
- (c) business continuity, such as backup management and disaster recovery, and crisis management;
- (d) supply chain security, including security-related aspects concerning the relationships between each entity and its direct suppliers or service providers;
- (e) security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure:
- (f) policies and procedures to assess the effectiveness of cyber ecurity risk-management measures;
- (g) basic cyber hygiene practices and cybersecurity training;
- (h) policies and procedures regarding the use of cryptography and, where appropriate, encryption;
- (i) human resources security, access control policies and asset management;
- (j) the use of multi-factor authentication or continuous authentication solutions, secured voice, video and text communications and secured emergency communication systems within the entity, where appropriate.

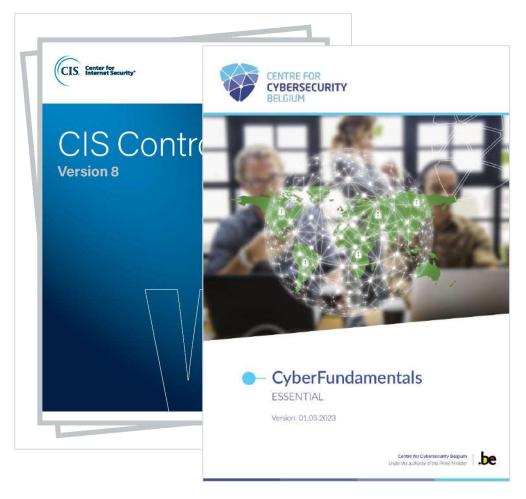
Cyber Resilience Act (CRA)

EN OJ L. 20.11.2024 ANNEX I ESSENTIAL CYBERSECURITY REQUIREMENTS Part I Cybersecurity requirements relating to the properties of products with digital elements (1) Products with digital elements shall be designed, developed and produced in such a way that they ensure an appropriate level of cybersecurity based on the risks. (2) On the basis of the cybersecurity risk assessment referred to in Article 13(2) and where applicable, products with digital (a) be made available on the market without known exploitable vulnerabilities; (b) be made available on the market with a secure by default configuration, unless otherwise agreed between manufacturer and business user in relation to a tailor-made product with digital elements, including the possibility to reset the product to its original state; (c) ensure that vulnerabilities can be addressed through security updates, including, where applicable, through automatic security updates that are installed within an appropriate timeframe enabled as a default setting, with a clear and easy-to-use opt-out mechanism, through the notification of available updates to uters, and the option to temporarily postpone them; (d) ensure protection from unauthorised access by appropriate control mechanisms, including but not limited to authentication, identity or access management systems, and report on possible unauthorised access; (e) protect the confidentiality of stored, transmitted or otherwise processed data, personal or other, such as by - - energyting relevant date at rest-or in transit by state of the art-incehanisms, and by using other technical means; (f) protect the integrity of stored, transmitted or otherwise processed data, personal or other, commands, programs and configuration against any manipulation or modification not authorised by the user, and report on corruptions; (g) process only data, personal or other, that are adequate, relevant and limited to what is necessary in relation to the intended purpose of the product with digital elements (data minimisation); (h) protect the availability of essential and basic functions, also after an incident, including through resilience and



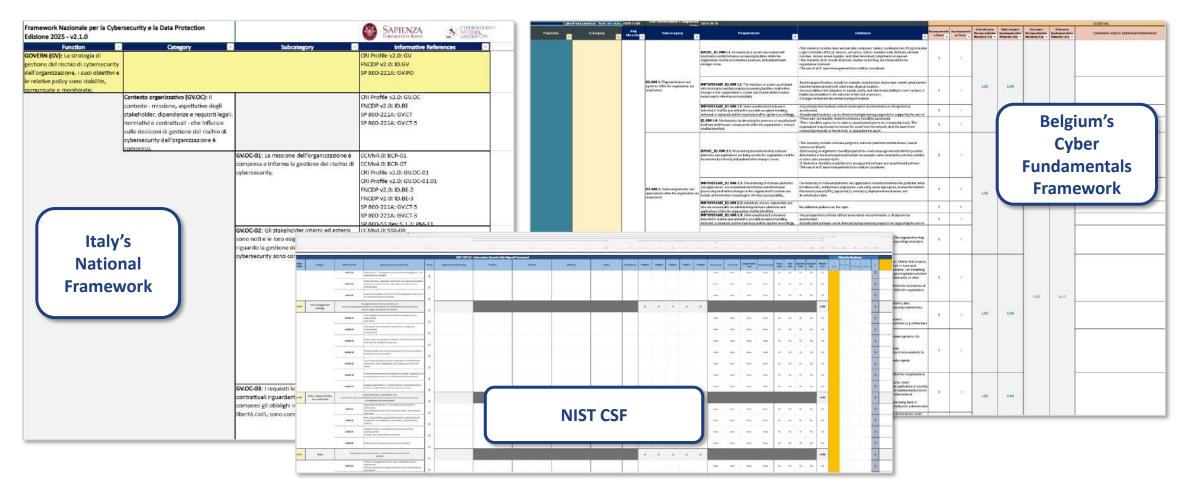
The security measures are detailed in different security controls frameworks





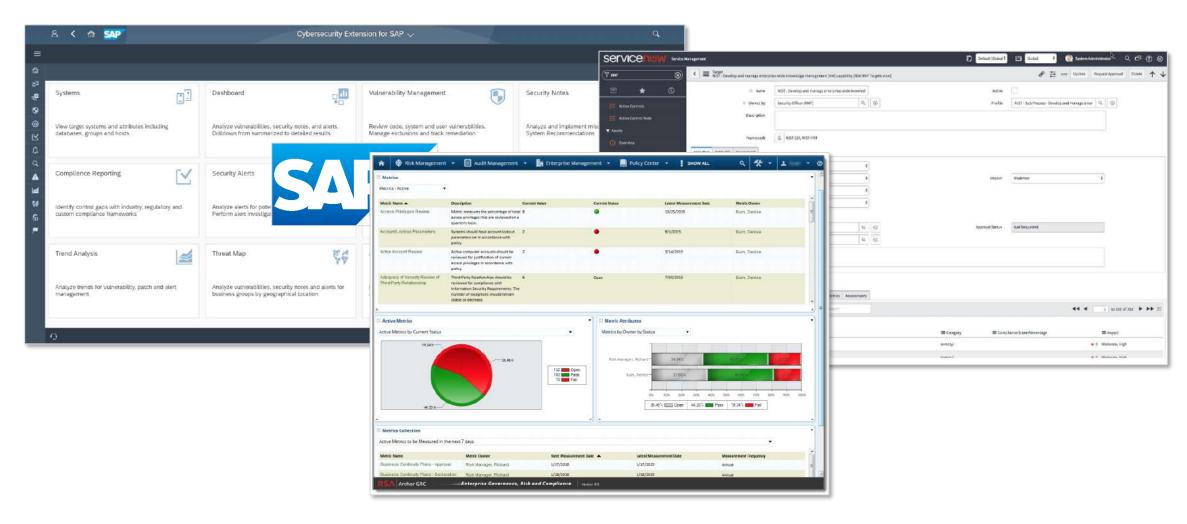


Security controls frameworks rely on assessments via spreadsheet, or



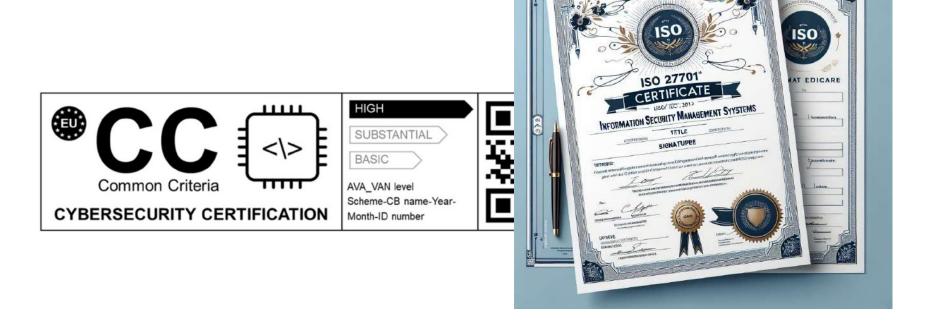


Or GRC tools, supporting the process



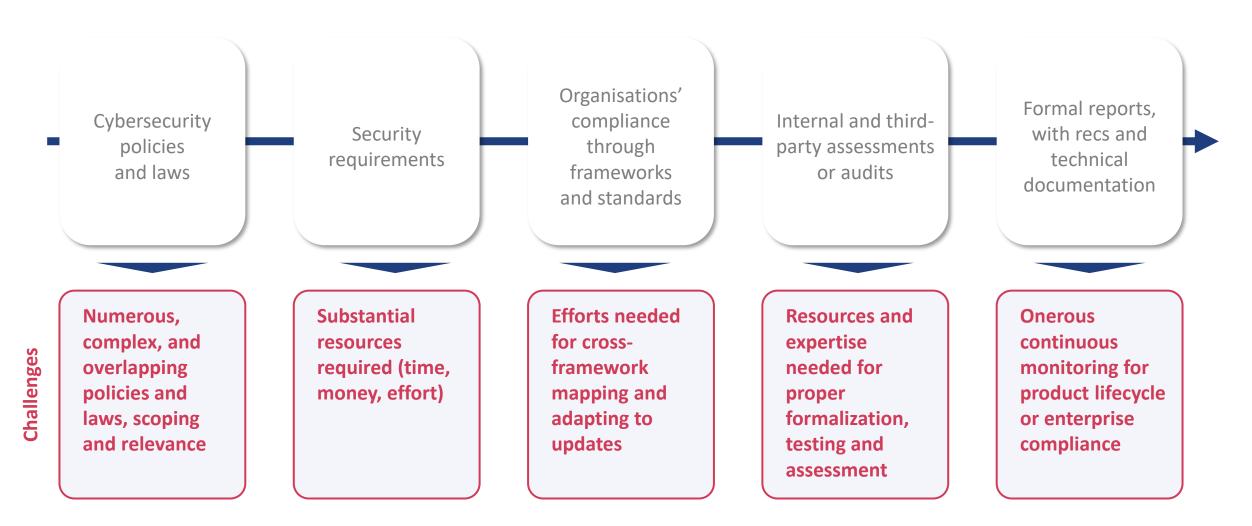


Eventually leading to certified audits or product certifications





Establishing a Complex Ecosystem





So What?



The process remains burdensome: How automated compliance can help



Compliance Challenges In Brief

- Complex procedures
- Resource demands
- Lack of expertise
- Tedious tasks
- Time-consuming processes
- Dependence on external professionals

Europe wants to improve its cybersecurity overall posture

To do so, compliance processes must be improved, to become more efficient and effective.

Automated compliance can assist in achieving this by:

- Providing a standardized approach (common language and processes),
- Facilitating swift assessments, once properly configured,
- Relying on machine-readable formats for sharing and processing audit report,
- Making continuous monitoring a reality, thanks to its automated setup.



Zooming into OSCAL: What's Needed Next?

Success Factors Description Open Questions

For discussion

Frameworks

The security controls frameworks, used to comply with the security measures outlined in EU (and global) cybersecurity policies, need to be represented in OSCAL Who should do the representation? Should it be done centrally by European and national institutions? Or by independent third parties?

Tools

OSCAL-based GRC tools need to be developed and brought to market

Is there an untapped market segment in Europe for OSCAL-based GRC tools?

Testing

Pilot projects need to be developed and run to test tools and processes and ultimately reach effective and efficient adoption

Could pilots be run under Digital Europe Program (DEP) projects?

Adoption

The cybersecurity compliance ecosystem, including both national authorities as well as actors along the supply chain, need to adopt and accept OSCAL reports

How could national authorities' buy-in be achieved?



What other questions are What other questions are

What other questions are unanswered today?





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Are you interested in further exploring how OSCAL and automated compliance?

Reach out to us at policy@ecs-org.eu

