

Streamlining Regulatory Obligations of EU Cybersecurity Policies

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Agenda

Setting the Stage

- **Incident Reporting Complexities**
- **NIS2 First-Hand Challenges**
- **CRA First-Hand Challenges**





Research and Analysis Presentation

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Setting the Stage



Setting the Stage How to Streamline Regulatory Obligations?

The Starting Point

The cybersecurity ecosystem is diverse for size and sectoral specificities.

Cybersecurity policy today does not fully reflect these differences.

Policies touch so many different aspects of an organization.

Entities face very **concrete operational challenges** when trying to comply with the existing and upcoming regulations.

The **Question**

What should be done about it? Is the solution operational or political?





Setting the Stage Challenges with Policies and Security Measures

Entities highlighted **challenges** in **almost every domain of cybersecurity**,

with variations based on their maturity level, geographical location, and positioning in the market.





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Setting the Stage Insights from Security Professionals

Quotes from our Survey

"Different security and risk mgmt. measures in each country make central administration unnecessarily complex. This complexity hinders efficient mgmt. and increases operational costs."

> "Each regulation prescribes its **own set of security controls** instead of openly requiring established standards. This **inconsistency complicates compliance** efforts and increases administrative burdens."

"Implementing CER and NIS2 as **directives rather than regulations** allows each EU country to add its own **variations**. If CER and NIS2 were implemented as regulations, similar to GDPR, it would **reduce uncertainties** and headaches by providing a uniform approach."

> "Creating customer evidence for compliance is challenging when **requirements are vague**. Understanding regulation priorities when **multiple regulations** affect the solution, and working with authorities in several countries adds **complexity**."

Note: The opinions expressed in the survey do not represent ECSO official position





Setting the Stage The Most Burdensome Requirements





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Setting the Stage Access Management

Quotes from our Survey

"As an international company, we follow both the ISO 27001 and NIST frameworks. However, **password requirements differ between these frameworks**, creating compliance challenges."

"NIS2 EU requirements, such as **Multi-Factor Authentication (MFA), differ significantly** from the technical requirements in the **Austrian** NIS2 draft, as well as from those in **Germany** and **Hungary**. This inconsistency complicates compliance efforts."

Analysis

- Today there is a burdensome multitude of legislative requirements and frameworks.
 Despite general alignment, there are divergencies on specific details, which can generate significant operational implications and costs.
- Mapping <u>domains</u> between different policies and frameworks does not provide a guarantee that specific details align.

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Setting the Stage Vulnerability Mgmt. and Penetration Testing

Quotes from our Survey

"Managing vulnerabilities to obtain compliance is an ongoing, energy-draining, and cost-ineffective effort."

Penetration testing often incurs **significant expenses** and efforts that are perceived as largely unproductive."

Note: The opinions expressed in the survey do not represent ECSO official position

Analysis

- While vulnerability management and penetration testing is highly valued security measure. Some organizations find them overwhelming and may rather not be required to perform them.
- Initiatives like SBOM and VEX, for vulnerability management, and free scanning services provided by national cybersecurity authorities, can significantly support smaller entities.

SBOM: Software Bills of Material; VEX: Vulnerability Exploitability eXchange





Setting the Stage **External Audits**

Quotes from our Survey

"Our company is required to prove the level of security to external auditors who are unfamiliar with our operations and rely on a one-size-fits-all checklist.

These auditors often **charge high rates** without enhancing our actual security level. This process wastes resources that are already scarce in the industry."

Analysis

- Some organizations find the process of proving security levels to external auditors burdensome, as they rely on standardized checklists and don't account for the unique aspects of each organization.
- While some may advocate for more liberalization, the European cybersecurity industry may want to explore more effective auditing practices, focused on security practices rather than formalization.

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Incident Reporting Complexities NIS2 First-Hand Challenges CRA First-Hand Challenges





Incident Reporting Complexities



Incident Reporting Complexities Reporting Overview

Notifying incidents to multiple authorities is a major source of complexity, mentioned by multiple respondents. Financial institutions have the most bodies to notify in case of an incident. Customers are also to be notified and supported in their notification.



Note: The opinions expressed in the survey do not represent the official position of ECSO or the Kosciuszko Institute

Detailed Desk Research and Analysis



NIS2 Directive



Digital Operational Resilience Act (DORA)





General Data Protection Regulation (GDPR)



Critical Entities Resilience (CER) Directive



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Incident Reporting Complexities Insights from Security Professionals on Reporting

Quotes from our Survey

"As an MSSP provider, we are both the protector and the protected entity under NIS2 reporting obligations. This may lead to duplicity in reporting incidents. It is unclear whether a single incident affecting both the MSSP and the service user (critical infrastructure operator) should be reported by the MSSP, the user, or both."

"The answer to this question will not give a picture of our company situation, as under some regimes, we are not the direct subject to reporting but our customers are.

Our company will need to **assist the customers in assurance of their compliance in their reporting obligations**, by providing all the necessary information in our possession. 5 regimes are in place already and will or may be in place with an impact on our company: GDPR, NIS2, DORA, CRA and AI Act."

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Incident Reporting Complexities When to Report





Note: This information, collected via interviews, is accurate to the best available knowledge as of November 2024.





Incident Reporting Complexities Incident Reporting in the Finance Sector





CASE STUDY

Incident Reporting Complexities Belgium: Notification Authorities for Finance

DORA Single Report (to NBB/FSMA) Cascades to: ECB (for significant banks), ESAs (EBA/ESMA/EIOPA), Payment Systems Supervisors

Sectoral and Specialized Authorities	EU Financial Supervisory Authorities	Cybersecurity Authorities
 National Payment Systems Supervisors for PSD2 (National Bank of Belgium) Market Infrastructure Regulators for 	 European Central Bank – for significant banks under SSM European Banking Authority European Securities and Markets Authority (ESMA) - for securities-related incidents European Insurance and Occupational Pensions Authority (EIOPA) - for insurance-related incidents 	 National CSIRT (CERT.be) CSRITs/CERTs of affected member states (potentially 27 countries)
clearing/settlement incidents (National Bank of Belgium and FSMA for market infra supervision) • National Security Authorities if classified information involved (VSSE)	National Financial Supervisory authorities	Law Enforcement
	 National Central Banks of each member state (National Bank of Belgium) National Financial Supervisory Authorities (FSMA -The Financial Services and Markets Authority) 	 National Police Cybercrime Units (FCCU - Federal Computer Crime Unit) Europol in cases of cross-border cybercrime
Financial Intelligence Units if monov loundoring	Jnits if Data Protection Authorities Stock Exchange Regulators	Stock Exchange Regulators
 implications (CTIF-CFI) eIDAS Supervisory Bodies if trust services are affected (FPS Economy) 	 Lead Supervisory Authority under GDPR (Belgian Data Protection Authority) National Data Protection Authorities in affected member states (potentially 27 countries) European Data Protection Board (EDPB) for cross-border incidents 	 Relevant Stock Exchange Authorities if listed (Euronext Brussels) Market Supervisory Authorities for market-sensitive incidents (FSMA)

Note: This information, collected via interviews, is accurate to the best available knowledge as of November 2024. Bolded Authorities are covered by the DORA Single Report

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Illustrative

NIS2 First-Hand Challenges



NIS2 First-Hand Challenges NIS2 Challenges: Differences and Complexity

The Directive based approach means companies must navigate **varying national interpretations and implementation timelines across member states**.

Organisations must adapt to inconsistent scope interpretations, security frameworks, varying reporting thresholds and differences in supply chain provisions, creating **operational complexity in cross-border security management and compliance monitoring**.



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International Security Frameworks



Timeline





Supply Chain



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NIS2 First-Hand Challenges Tracking NIS2 Adoption: Latest Developments



No Information available Public Draft Transposed

Analysis

- Croatia, Italy, Belgium, and Lithuania are the only countries that fully transposed NIS2 based on the infringement procedure started by the EC on 28 November against 23 EU Member States.
- A large number of countries that published drafts expect to adopt NIS2 in Q1 2025.
- Beside the fragmentation, an additional problem for entities in scope is the lack of accessible relevant information online and the missing central repository providing an up-todate overview of the transposition status across countries.





NIS2 First-Hand Challenges Enlarged Scope and Layered Entity Classification



Inconsistent sector classification creates operational inefficiency and market inequality where organizations must maintain higher security standards (and bear associated costs) in countries that include their sector





NIS2 First-Hand Challenges Diverse International Security Frameworks



Key Takeaway

Companies must maintain different documentation sets, security controls, and audit processes to satisfy essentially the same NIS2 requirements across different member states, while also managing the ongoing challenge of standards versions and updates being accepted at different times by different countries.





NIS2 First-Hand Challenges Timelines Divergences



Key Takeaway

Companies must either align with the earliest deadline across all jurisdictions or manage a complex matrix of countryspecific timelines, significantly impacting resource allocation and compliance planning





NIS2 First-Hand Challenges Stricter Entity Obligations for Incident Reporting



Key Takeaway

The divergent scope of reportable incidents across countries, with some requiring reporting beyond significant incidents and others applying different cross-border impact criteria, forces companies to implement broader monitoring capabilities and maintain country-specific incident response procedures, leading to increased resource requirements and compliance risks





NIS2 First-Hand Challenges The Hidden Cost of Security Questionnaires

Key Challenges

Questionnaire overload (150-1000+ questions)

- Multiple platforms for questionnaires
- Resource drain (e.g., time, financial resources, and staff)
- Repetitive and time-consuming questions
- Legally binding answers
- New requirements (e.g., AI, ESG) adding complexity
- Concerns about sharing of sensitive documents

Key Solutions

- Minimum European Security Requirements
- Standardized Framework aligned with: NIS2, CRA, ISO, SOC2
- Automated evidence mapping to multiple frameworks and AI assisted pre-filling (75% Pre-filled Common Questions)

Key Takeaway

Standardization can allow to move from checkbox compliance to meaningful security measures. A minimum-security baseline can be standardized such as in similar examples like CSA's <u>Cloud Controls Matrix (Cloud)</u>* or <u>Minimum Viable Secure Product (Products)</u>*

* The examples suggested here do not represent ECSO official endorsement





CRA First-Hand Challenges



CRA First-Hand Challenges Insights from Security Professionals on the CRA

Quotes from our Survey

Supply chain compliance with CRA

"Most of our life science tools contain digital elements sourced from supply chains. Additionally, providing support for up to 10 years for all our products will cause a major cost impact and could potentially kill our business."

Conformity Assessment Processes differences between CRA and EUCC

"CRA allows for internal conformity assessment for class I products if European certifications are used, while EUCC requires third-party conformity assessment as the default regime. This discrepancy adds to the complexity of compliance."

Accreditation Schemes differences between NESAS/CRA

"Accreditation schemes for laboratories vary between NESAS/CRA, leading to compliance risks and potential invalidation of certifications."

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CRA First-Hand Challenges **Recurring CRA Implementation Challenges**

ECSO has conducted **analysis** on an ongoing basis, concerning the **perceived challenges and outstanding questions** on the CRA implementation. Consulting with members, partners organisations, and institutions some themes are recurring.









CRA First-Hand Challenges Reducing the CRA Regulatory Burden

Problem Statement

The Cyber Resilience Act is a piece of regulation with massive impact on the market and with the promise of strengthening the security posture of the EU.

In order to work, it needs to be **well implemented**, well received and understood by the market.

How can we **facilitate** its complex implementation? How to **reduce time to market** and **costs** while **easing compliance**?





CRA First-Hand Challenges Understanding Certification and Compliance

The value of certification

- Build trust via future European cybersecurity certification schemes across industries
 - Calibrate security controls according to the risk-based assessment
 - Horizontal schemes to support sector specific needs
- Whole lifecycle, management of vulnerabilities and risk, etc.
- Assessment of the security claims according to the desired assurance level
- Surveillance of certified products and certificate validity lifecycle

Some challenges of the industry Vendors Maintaining compliance is

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tough. Components in a product might not be not all certified using the same schemes or at the same assurance levels

Monitoring suppliers' activities to meet a product's multicertification requirements is not easy

It is not always easy to identify the best cybersecurity certifications meeting the business needs

Achieving, maintaining and renewing accreditation for different schemes is time consuming and resource inefficient

CABs

While the scope of some schemes is too narrow and unusable in multiple domains, others are too generic, complicated and expensive to implement

Many schemes are not cheap and have overlapping requirements with other schemes

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CRA First-Hand Challenges Principles of Certification Composition

Objectives

- Enable efficient re-use of certificates and evaluation evidence
- Decrease certification cost and improve overall process speed
- Benefit horizontal components **specialised in application** domains
- Strongly contribute on the time to market of products

Composition is a key concept to support a Supply Chain of Trust



CRA First-Hand Challenges Composition for CRA Compliance



Tool to support the conformity procedure - Composition applies to regulations, standards, certifications; and it is effectively an example of simplifying the interplay between these elements.



CRA challenges for achieving composition - The composition for third party conformity assessment, for self-declaration, methodologies when dealing with composition, third part assessment, cybersecurity certification



Enablers for composition - What's missing for the national accreditation bodies, conformity assessment bodies (CAB), for the manufacturers (Open-source supply chain), for the market authority





CRA First-Hand Challenges Future Work Plan

Previous work Technical analysis on "Product Certification Composition"







Final Considerations

Ten Final Considerations

Preliminary suggestions for further investigation

- 1. Designate one single point for reporting of ALL cybersecurity incidents, beyond the NIS2 scope.
- **2. Standardize templates and data formats**, especially focusing **on incident reporting**, with clear definitions to facilitate international communication & problem solving.
- 3. Develop a European risk management framework, methodology, and open-source tool, commonly adopted across EU countries.
- 4. Develop a Third Part Risk Management (TPRM) framework.
- 5. Rely on **existing standards as a sufficient proof of compliance**.

- 6. Provide **targeted support for disadvantaged entities** (e.g., timelines, financial incentives for implementation).
- 7. Develop more practical implementation guidelines on **CRA conformity assessments** (i.e., module B, C and H).
- 8. Draft horizontal guidelines for **CRA Composition.**
- Develop methodological support documents for the implementation of requirements, focusing on a bottomup approach lead by technical experts (e.g., asset criticality classification).
- 10.Continuously engage with a wide range of stakeholders including sectoral and cybersecurity associations, via awareness-raising sessions, public consultations, and webinars.



Open Discussion



Thank you!

