# *Cybersecurity Legislation in Europe - A Snapshot from Industry Perspective*



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# Overview of EU Cybersecurity Regulations



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**EU 2019/881 Cybersecurity Act**

Established a certification framework and enhanced ENISA's (European Union Network and Information Security Agency) role to improve cybersecurity in the EU.

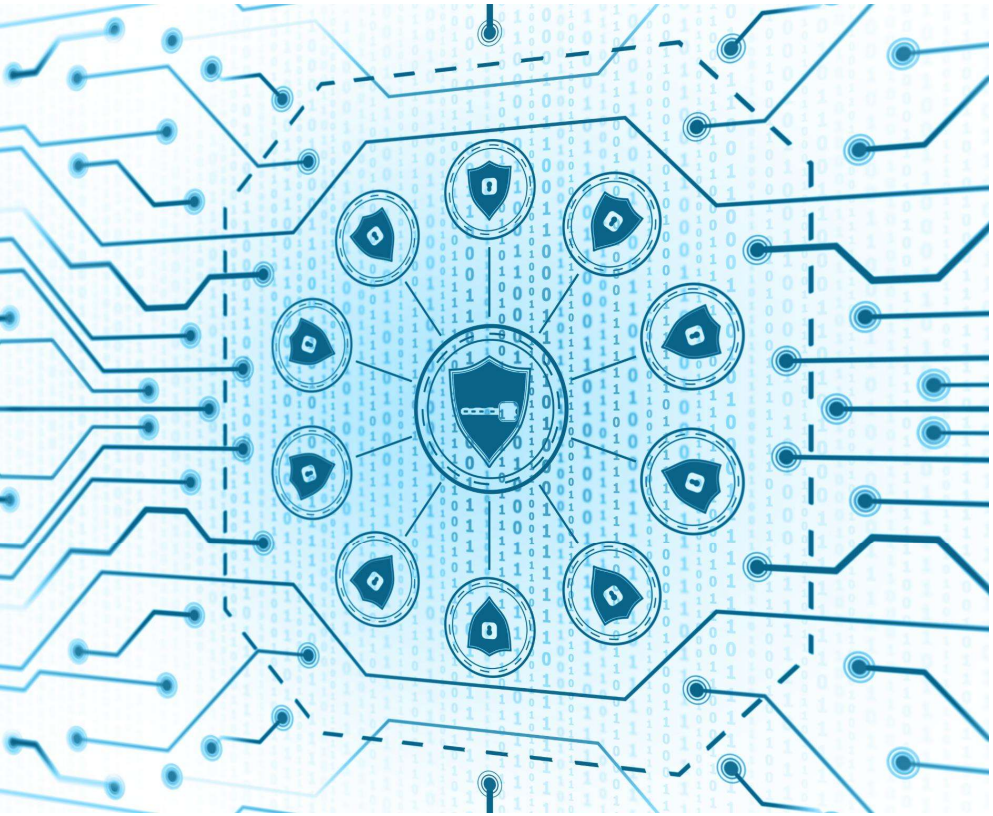
**EU 2022/2555 NIS-2 Directive**

NIS-2 Directive expanded cybersecurity obligations to more sectors with stricter enforcement.

**EU 2024/2847 Cyber Resilience Act**

This act mandates cybersecurity requirements for products containing digital elements to enhance cybersecurity during the whole product lifecycle (with certain exemptions).

# Regulatory Scope



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**EU 2019/881 Cybersecurity Act Goals**

Cybersecurity Act targets ICT products, services, and processes with voluntary certification schemes.

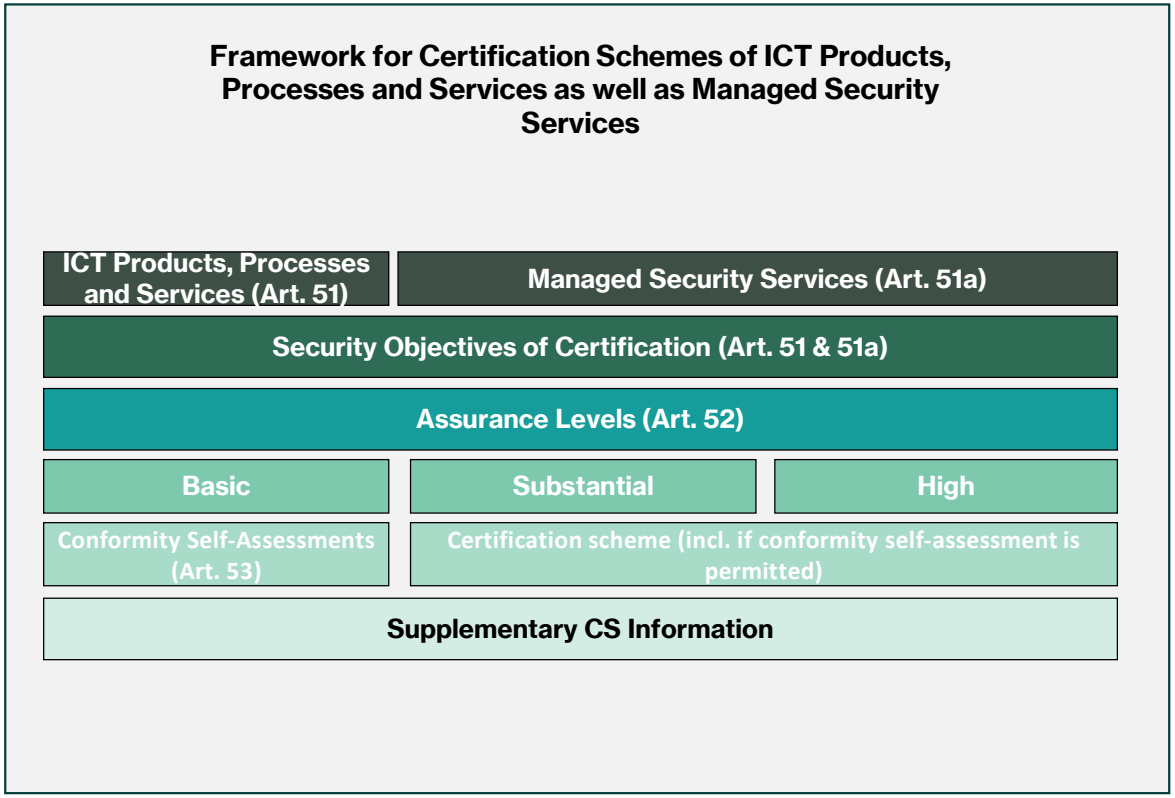
**EU 2022/2555 NIS-2 Directive Scope**

NIS-2 directive applies to operators of essential services (KRITIS-Sectors) and operators of important services (e.g. automotive, food, digital providers)

**EU 2024/2847 Cyber Resilience Act Focus**

Integrates cybersecurity into digital product lifecycle through secure design, development, and production with a risk-based approach classifying them as general, important, or critical.

# Key Requirements EU 2019/881 Cybersecurity Act



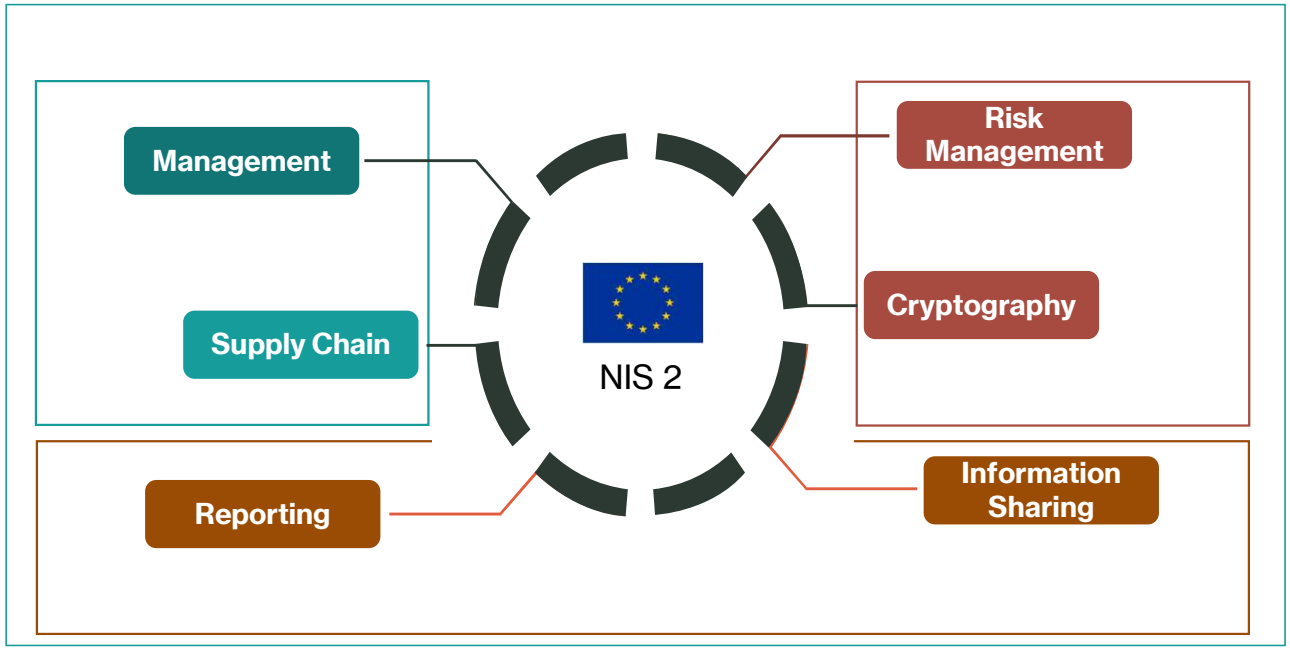

**Framework of Certification Schemes**

The Cybersecurity Act establishes certification framework for voluntary certification schemes for ICT products and services.

- Requirements for manufacturers and service providers
- Evaluation activities
- Supplementary information to be provided by manufacturers / providers

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# Key Requirements EU 2022/2555 NIS-2 Directive

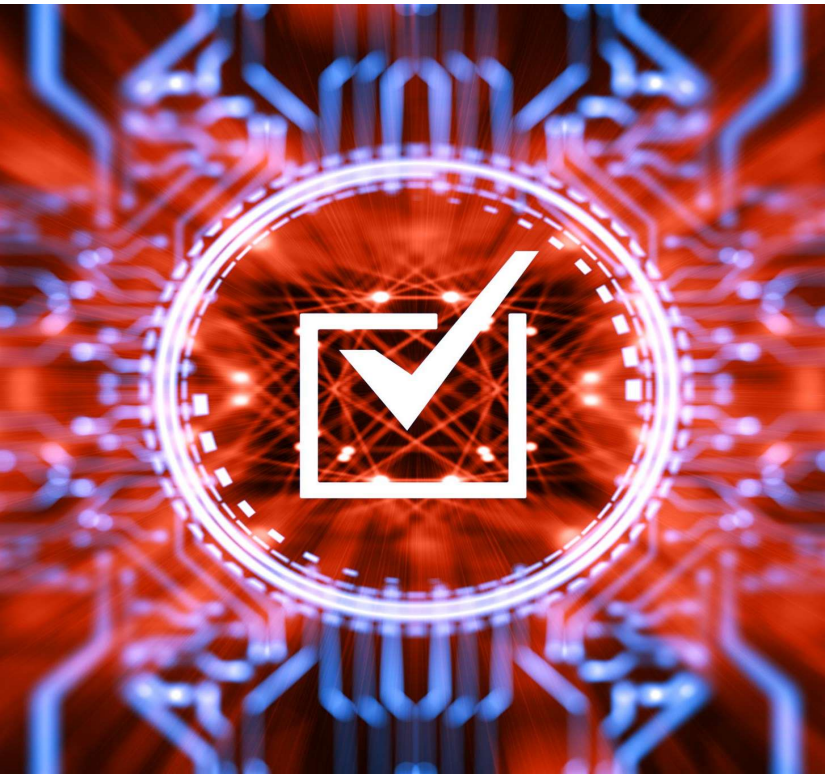



**Areas for Important Entities**

- Personal accountability of management board for non-compliance
- Check of overall quality of products and cybersecurity including the secure development procedures along the Supply Chain
- Risk management measures to identify, prevent, detect and handle incidents and to mitigate their impact
- Use cryptography and encryption, in particular end-to-end-encryption, access policy and access management
- Reporting of Significant Incidents
- Security Information sharing plan

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# Key Requirements EU 2024/2847 Cyber Resilience Act



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**Conformity Assessment**

**Security Requirements to products with digital elements**

Risk based assessment and vulnerability management

**Self-Assessment for Standard Products**

Manufacturers can perform self-assessments to verify cybersecurity compliance for standard products before market entry (class I and II)

**Third-Party Evaluation for Critical Products**

Critical products require stringent third-party evaluations to ensure they meet strict cybersecurity standards.

**Declaration and Compliance**

Issuing declarations of conformity and affixing CE markings demonstrate regulatory compliance

**Testing and Validation**

Products must be tested and validated against harmonized standards to ensure reliability and security

# Comparative Overview

| ASPECT | CYBERSECURITY ACT | NIS-2 DIRECTIVE | CYBER RESILIENCE ACT |
|---|---|---|---|
| **Objectives** | Certification Framework | Resilience of Important and Critical Entities | Secure Digital Products |
| **Scope** | ICT Products and Services | Essential and Important Entities | Connected Hardware/Software with digital elements |
| **Requirements** | Voluntary Certification | Risk Management, Reporting | Risk management, CE Labeling, self-certification or by technical services |
| **Stakeholders** | Manufacturers, Service Providers | Manufacturers, Operators, Digital Providers | Manufacturers, Importers, Distributors |
| **Penalties** | Limited | Up to €10M or 2% Turnover | Up to €15M or 2.5% Revenue |

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# EU Regulations and Certification

Horizontal Regulation

EU 2019/881
Cyber Security Act

EU 2022/2555
NIS-2

Essential & important entities
ICT Products, services & processes

EU 2024/2847
Cyber Resilience Act

Manufacturer of Products of digital elements

Vertical Regulation

EU 2022/30
EU-RED-DA

Internet connected radio equipment devices

UN-R 155 → EU 2018/858, EU 2019/2144, EU 2022/2236

Vehicle Manufacturer and Vehicle type

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Certification

EU5G – Certification Scheme for 5G Networks (under development)

EU 2024/482 EUCC – European Cybersecurity Certification Scheme on Common Criteria

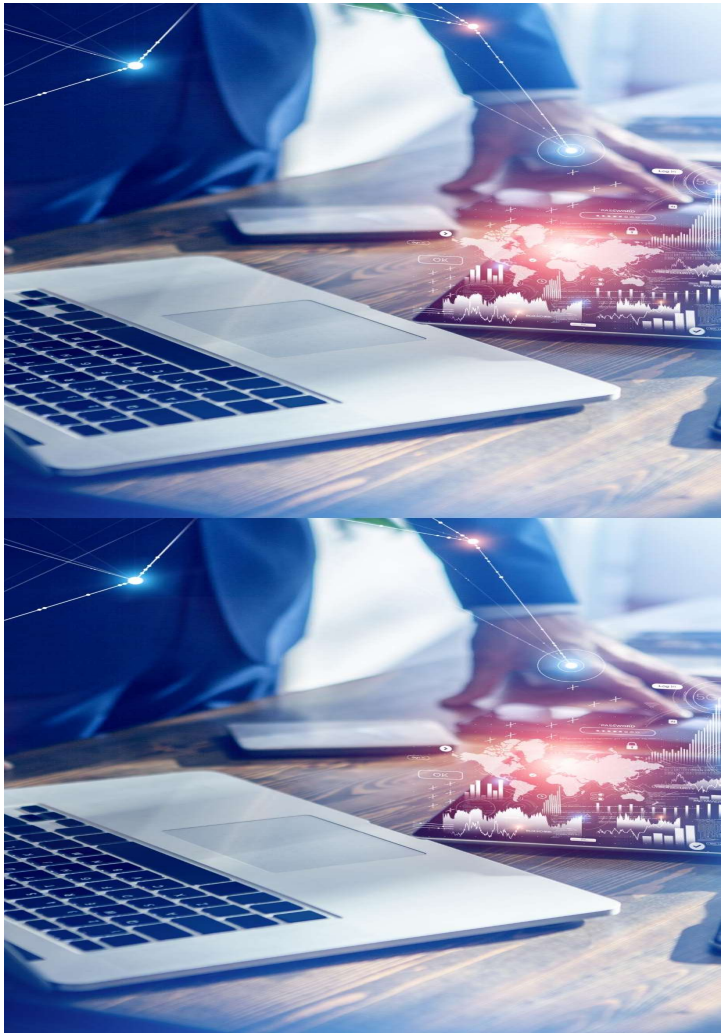
EUDI Wallet – Certification Scheme for EU Digital Identity Wallets(under development)

EUCS – European Cybersecurity Certification Scheme for Cloud Services (under development)

CRA (Self-) certification based on HENs

EU-RED-DA
Self-certification based on HEN

UN-R155 Audit and Certification



# Strategic Implications and Recommendation

**Horizontal vs vertical regulation**

Avoid overlapping regulations for products and organizations

**Certification**

Request certification but avoid multiple certifications for similar target

**Standardization**

Re-use / enhance existing standards to become appropriate harmonized European standards (HEN) instead of developing new ones.

**Recommendation**

**K**eep
**I**t
**S**mart
**S**imple

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# Thank You!

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