

CYBER RESILIENCE ACT

Overview and Status

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CYBER RESILIENCE ACT – CORE POINTS



CYBER RESILIENCE ACT



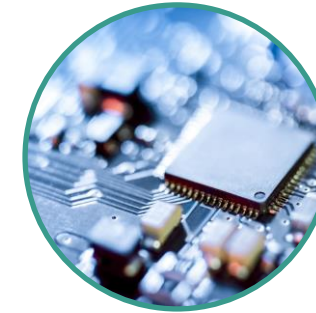
Default category

- **Self assessment**
- Examples: Smart Speakers, Toys, Hard drives, Photo editor, Word processor



Class I – (critical) products

- **Self-assessment or third party (based on harmonized standard)**
- Routers, Microcontrollers, Anti-virus software, Password manager, Network interfaces, Firewalls



Class II – (highly critical) products

- **Third-party assessment (based on harmonized standard)**
- CPUs, Smartcards, Operating system, HSMs, Industrial firewalls, Smartcards, Smartcard readers, Secure elements

Risk Assessment: Functionality, Intended use, Impact

APPLICABILITY OF THE CYBER RESILIENCE ACT



Cyber Resilience Act applies to all products with digital elements



Excluded: Domains with pre-existing cybersecurity requirements



Requirements depend on criticality

PRODUCTS WITH DIGITAL ELEMENTS

- Non exhaustive list:
 - Smartphones and Tablets
 - Computers and Laptops
 - Internet of Things (IoT) Devices
 - Wearable Technology
 - Networking Equipment
 - Software and Applications
 - Smart Vehicles
 - Medical Devices with Digital Elements
 - Gaming Consoles and Virtual Reality (VR) Headsets
 - Smart Industrial Equipment
 - Microcontroller
 -



CRA INTERACTION WITH SECTOR-SPECIFIC CYBERSECURITY

CRA Exemptions:

- Devices under existing sector-specific legislation may be exempt from CRA.

Sectoral Precedence:

- If a sector has dedicated cybersecurity regulations, these might supersede or complement CRA's requirements.

Future Legislation Potential:

- CRA allows for introduction of future sector-specific EU rules, affecting various domains.

EU Cybersecurity Framework Integration:

- CRA forms part of a wider EU framework, aiming to enhance product lifecycle security, relevant across sectors.

RATING OF CRITICALITY



Cybersecurity-Related Functionality

- Authentication
- Access Control
- Intrusion Prevention
- Endpoint Security
- Network Protection



Core System Functions

- Network Management
- Configuration Control
- Virtualization
- Personal Data Processing
- Disruption Potential

CRA REQUIREMENTS

Risk Assessments:

- Continuous mandatory risk assessments throughout the product's lifecycle to identify and manage potential cybersecurity vulnerabilities.

Vulnerability Management:

- Active management of identified vulnerabilities, including timely fixes and updates.

Automatic Security Updates:

- Provision of security updates automatically to all users, with an option for users to opt out.

External Audits for Critical Products:

- Products deemed critical must be subjected to external audits to ensure compliance with high cybersecurity standards.

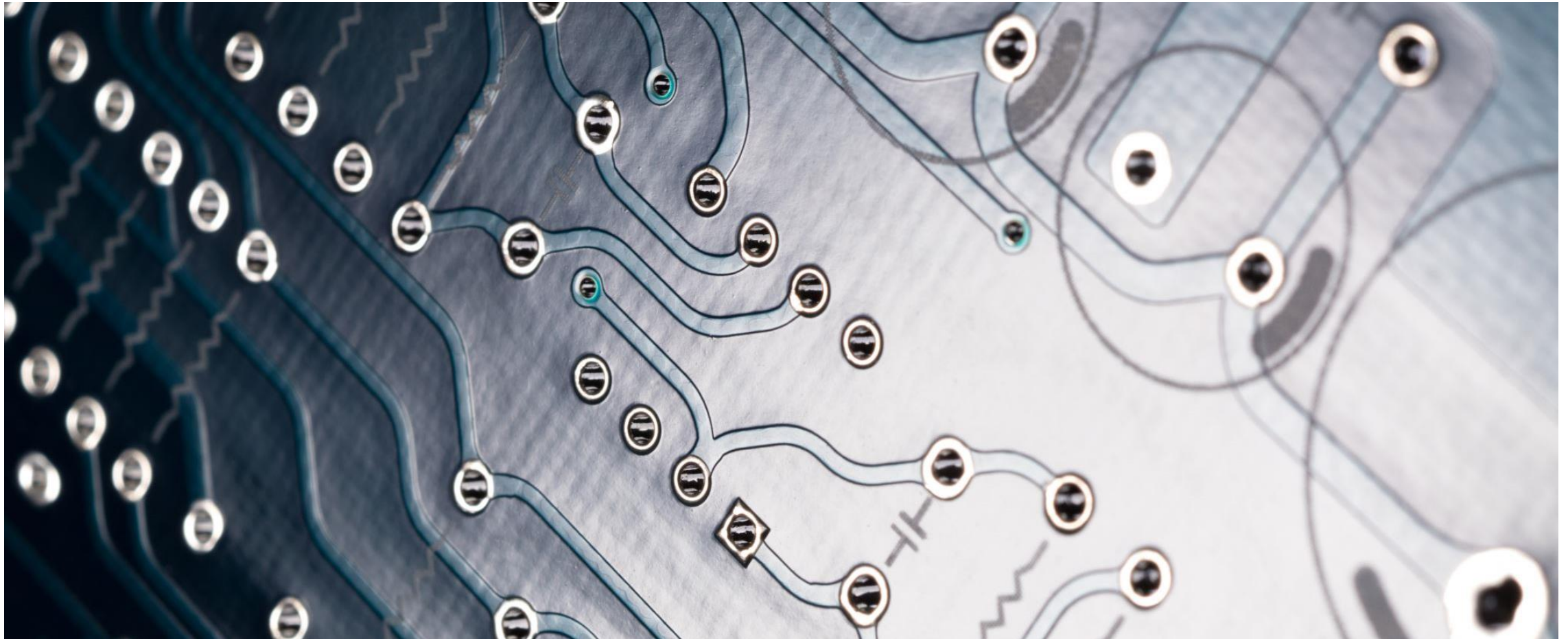
Rapid Incident Reporting:

- Obligation to report cybersecurity incidents to ENISA within 24 hours of detection, ensuring swift response and mitigation.




TIMELINE FOR COMPLIANCE

	15.09.2022	Legislative proposal by the European Commission
	19.07.2023	Council reaches common position.
	19.07.2023	Start of trilogue negotiations with Parliament
	T0	Regulation is adapted
	(T0+12M	Reporting of vulnerabilities within 12 months)
	T0+24M	Adaptation period for new requirements
	(T0+36M	Full implementation including vulnerability and incident reporting)

CYBER RESILIENCE ACT IN THE EUROPEAN REGULATORY FRAMEWORK

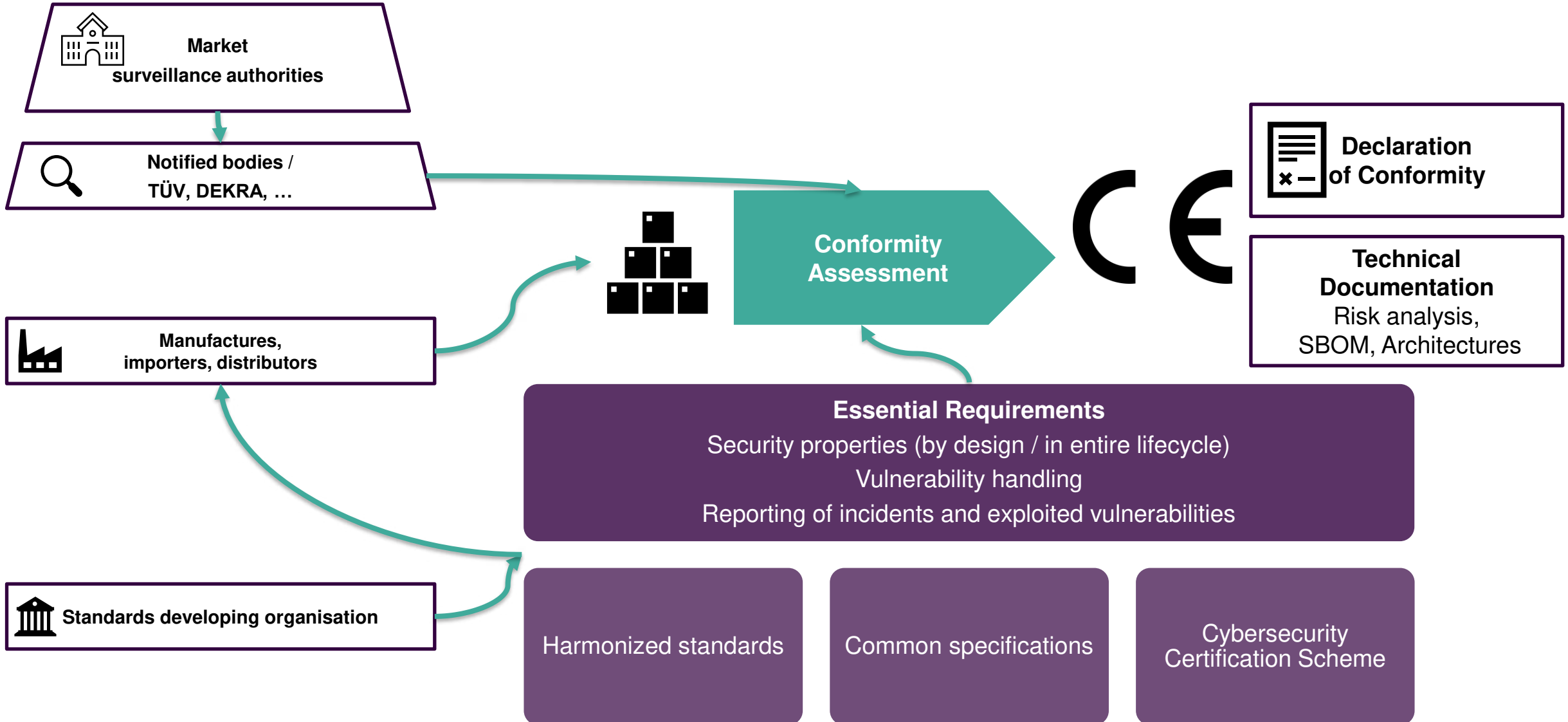


EUROPEAN APPROACH TO REGULATION

	Self-Assessment	Third-Party-Assessment
Product <ul style="list-style-type: none"> • Risk-based approach • EU regulation with essential requirements • For selected domains, technical specifications are addressed in harmonized standards • Based on this Product conformity assessment 		
Process <ul style="list-style-type: none"> • Product conformity assessment requires quality management system • ISO 9001 is a harmonized standard, but management system and requirements on certification differ depending on domain 		

Proposal 2022/0272(COD) "Cyber Resilience Act"	Regulation 2019/881 "Cybersecurity Act"	Regulation 765/2008 "CE marking"
	Proposal 2020/0359/(COD) "NIS2"	Regulation 768/2008/EC "conformity assessment procedures"

FRAMEWORK



CYBER RESILIENCE ACT - SUMMARY



Goals

Enhance cybersecurity and resilience within the EU.
Protect businesses and consumers from cyber threats.
Establish common cybersecurity standards for digital products.



Scope

Applies to manufacturers and retailers of products with digital elements.
Products whose use involves direct or indirect data connections.
Covers hardware, software, and IoT devices.



Core Requirements:

Risk assessments and vulnerability management throughout the product lifecycle.
Automatic security updates by default (with user opt-out option).
Critical products must undergo external audits.
Incident reporting

CYBERSECURITY BY DESIGN

CRA – AIT offers

AIT SOLUTIONS FOR CRA COMPLIANCE



Encryption Support: Advanced encryption algorithms and solutions to enhance data security.



Training & Exercises: Comprehensive training programs and cyber range exercises for team preparedness.



Product Testing: Rigorous testing services to ensure product compliance with CRA standards.



Risk Management with ThreatGet: Automated, model-based tool for proactive security by design, including certification support.



Security Monitoring with ÆCID: Cutting-edge Automatic Event Correlation for real-time incident detection and response.

THANK YOU!

Christoph Schmittner,

