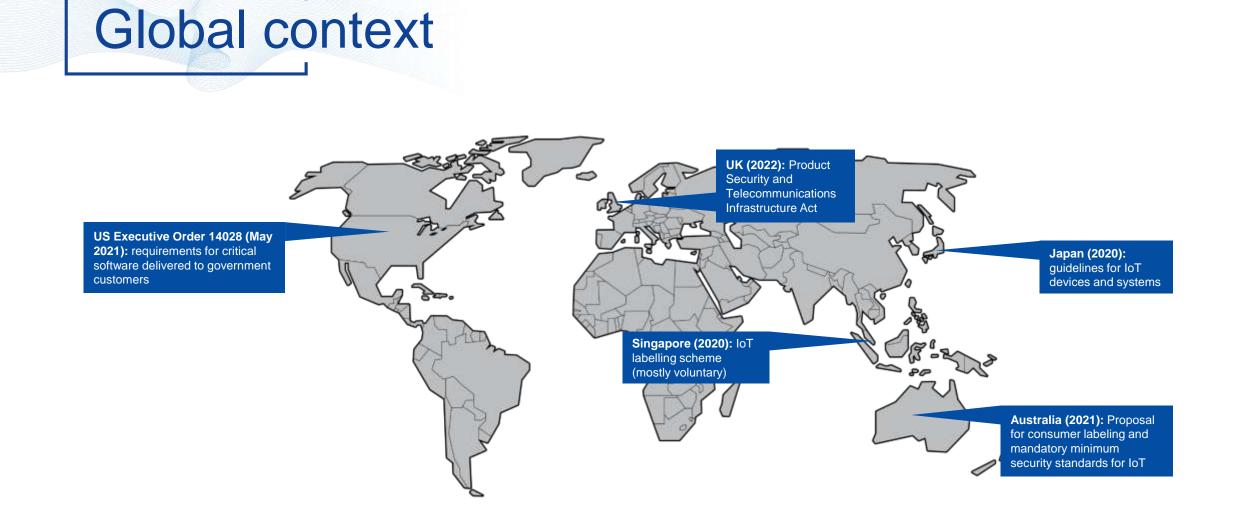


Standards for the Cyber Resilience Act

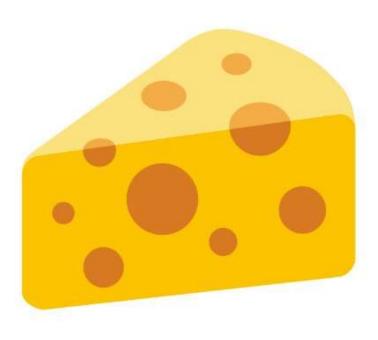
Filipe Jones Mourao, policy officer

European Commission, DG CONNECT











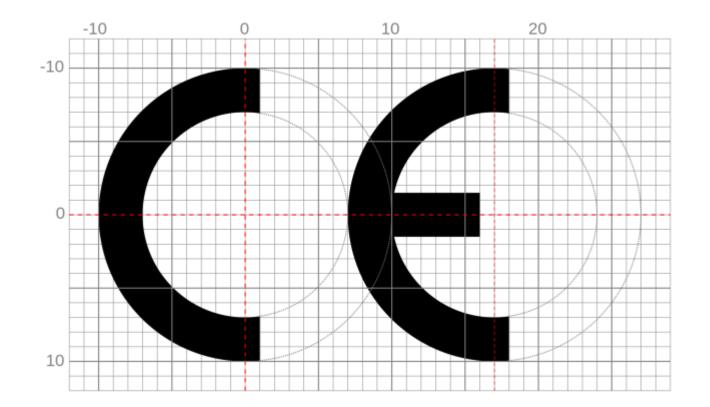


Main elements of the proposal

- * Cybersecurity rules for the placing on the market of hardware and software
- Based on New Legislative Framework (well-established EU product-related legislative setting)
- Obligations for manufacturers, distributors and importers
- Cybersecurity essential requirements across the life cycle
- Harmonised standards to follow
- Conformity assessment differentiated by level of risk
- Market surveillance and enforcement









Scope

Products with digital elements:

- Hardware products and components placed on the market separately, such as laptops, smart appliances, mobile phones, network equipment or CPUs
- Software products and components placed on the market separately, such as operating systems, word processing, games or mobile apps
- (i) The definition of "products with digital elements" also includes remote data processing solutions.

Not covered:

- Non-commercial projects, including open source in so far as a project is not part of a commercial activity
- Services, in particular standalone Softwareas-a-Service – covered by NIS2

Outright exclusions:

 Certain products sufficiently regulated on cybersecurity (cars, medical devices, *in vitro*, certified aeronautical equipment, marine equipment)



Approach to open-source

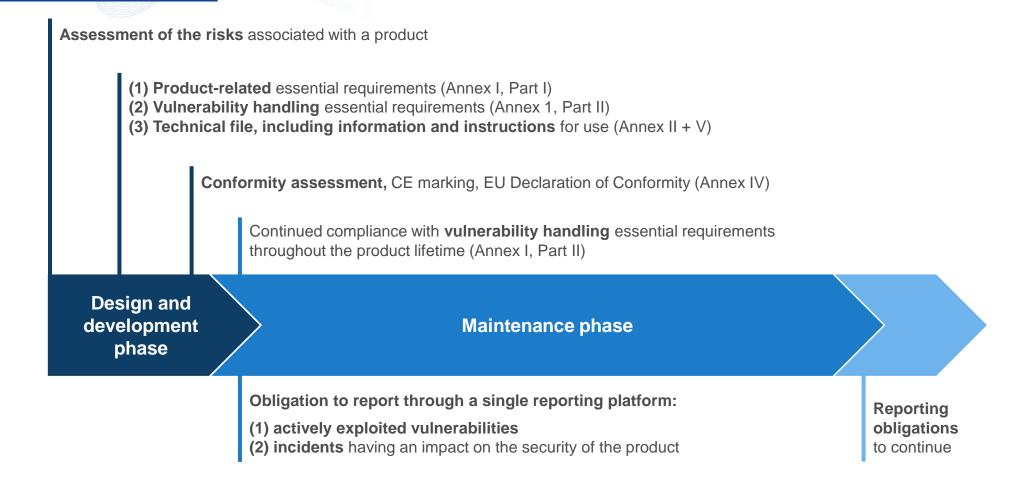
- > Only **directly monetised** open-source products subject to full set of obligations
- Introduction of the open-source software steward:

Light-touch approach for organisations that do not directly monetise but support on a sustained basis the development of specific open-source products intended for commercial activities.

- Possibility of self-assessment for open-source products, irrespective of whether they are considered important products or not
- Obligation for integrators to provide maintainers of open-source components with available fixes.



Obligations of manufacturers





Cybersecurity Essential Requirements

Properties of products

- No known exploitable vulnerabilities
- Security updatability (automatic)
- Access control (authentication)
- Confidentiality, Integrity, Accessibility (encryption)
- Data minimisation (intended purpose)
- Resilience of functions (DDoS)
- Reduce attack surface (interfaces)
- Reduce impact of incident (mitigation)
- Monitoring and logging (opt-out)
- Secure erasure

Vulnerability handling

- & Identify components (SBOM)
- Document vulnerabilities
- Mitigate without delay
- Regular test and review
- * Publicly disclose information once fixed
- Coordinated vulnerability disclosure
- Share information on potential vulnerabilities
- Securely distribute updates
- Disseminate updates free of charge



Software Bill of Materials in the CRA

- Manufacturers to draw up a SBOM in a commonly used format covering at the very least the top-level dependencies of the product
- * **No requirement** to make the SBOM publicly available
- SBOM to be included in the technical documentation and, upon request, to be provided to market surveillance authorities
- Commission empowerment to specify the format and elements (international standards to be relied upon)



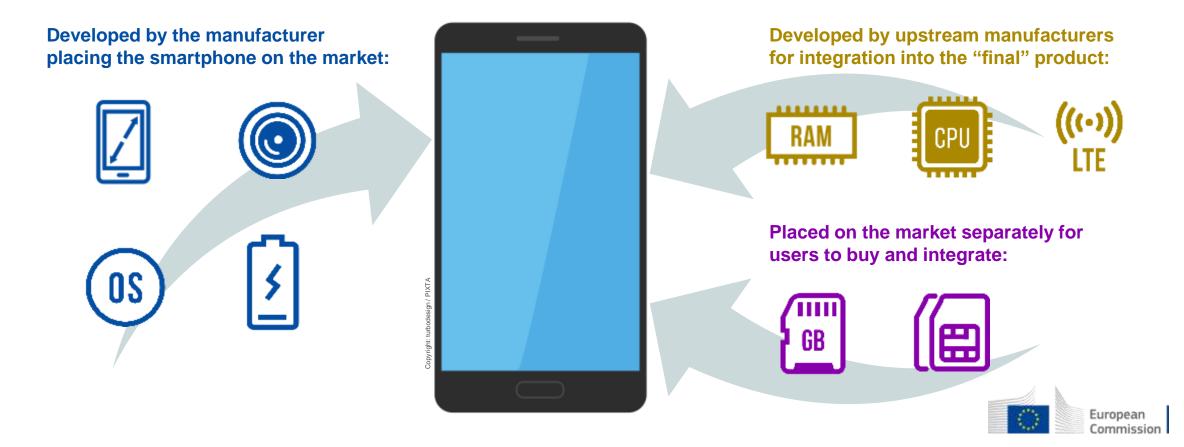
Conformity assessment – risk categorisation

- Default category (more than 90%): The vast majority of products will be subject to self-assessment (examples: photo editing, word processing, smart speakers, hard drives, games etc.)
- Important products (less than 10%): A small group of critical products listed in the Annex will be subject to more stringent conformity assessment procedures, including assessment by an independent third party (examples: firewalls, routers, hypervisors etc.)
- Critical products: To future-proof the CRA, the Commission is empowered to adopt secondary legislation requiring *mandatory certification* based on EU cybersecurity certification schemes (Cybersecurity Act) of certain products posing a particularly high risk, such as smart cards.



A simplified example of smartphones

As a rule, whoever places on the market a "final" product or a component is required to comply with the essential requirements, undergo conformity assessment and affix the CE marking.

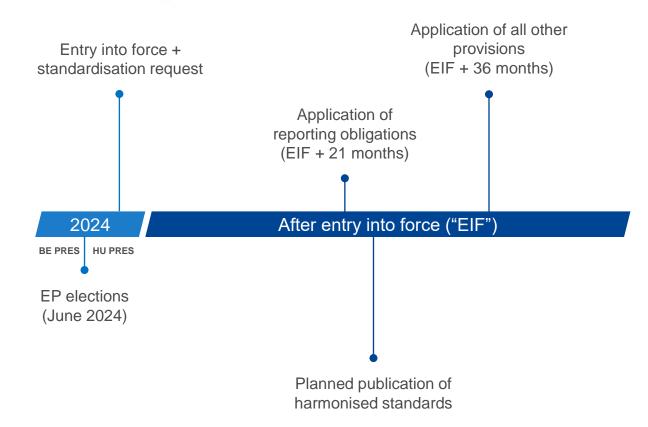


Market surveillance powers and sanctions

- Tools for checks at the disposal of market surveillance authorities (MSAs): documentary checks, requests for information, inspections, laboratory checks etc.
- When non-compliance found, MSAs have powers to:
 - 1) require **manufacturers to bring non-compliance to an end** and eliminate risk;
 - 2) to **prohibit/restrict the making available** of a product or to order that the product is **withdrawn/recalled**;
 - 3) impose **penalties** (including fines up to 15 000 000 EUR or up to 2.5 % of worldwide turnover).
- In exceptional circumstances, COM may require ENISA to conduct an evaluation and, based on the results, establish a corrective or restrictive measure is necessary at Union level via an Implementing Act (and following MS consultations).











Draft Standardisation Request in support of the

Cyber Resilience Act

European Commission, DG CONNECT

Results of gap analysis

- No single standard covers all the requirements
- For each of the defined requirements there is already at least one reference document
- Good cybersecurity standardisation base is in place
- Harmonisation is needed to ensure a homogeneous horizontal coverage
- Some gaps need to be addressed



Draft Standardisation Request

- Aim to gain time and allow technical discussions to start as soon as feasible
- Amend the Request once CRA is finally adopted

Targeted stakeholder consultations

- « ESOs, Annex III orgs.
- Expert Group: Multi-stakeholder Platform on ICT standardisation



Draft Standardisation Request

- Building on existing international standards and work done for RED DA ("horizontal" approach)
- 2-tiered approach with horizontal and vertical standards, prioritising important / critical products (CRA Annex III).
- * Possible inspiration: machine safety Type A, B, C standards
- & 41 European standards plus supporting deliverables (if any)
- First building blocks for product security ecosystem of standards





- Public notification of CRA SR (open until 16 May 2024)
- Possible Action Grant to support NSBs and ESOs
- Adoption of request, acceptance, start of development
- Policy-based SR to be amended once CRA is fully adopted
- Medium term: market-led development of more product-specific standards (type C), to propose to COM for harmonisation



Thank you.

