

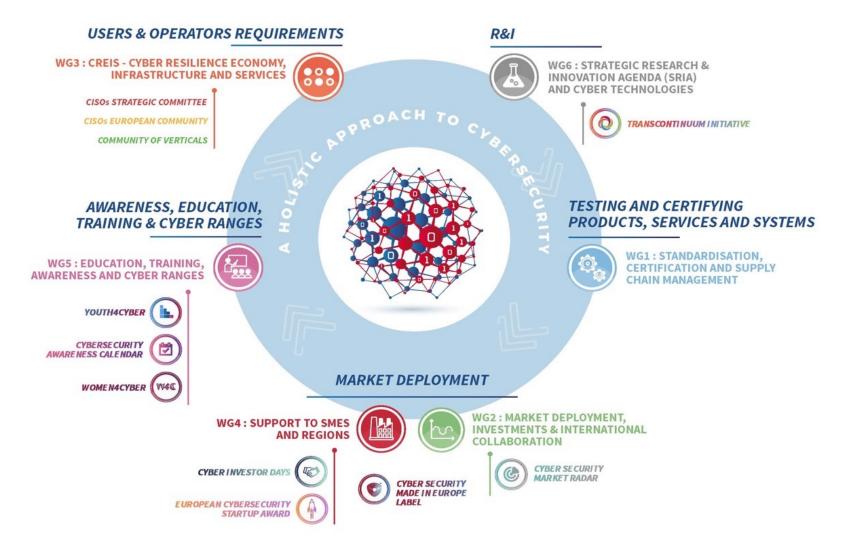
ECSO Mission & Approach

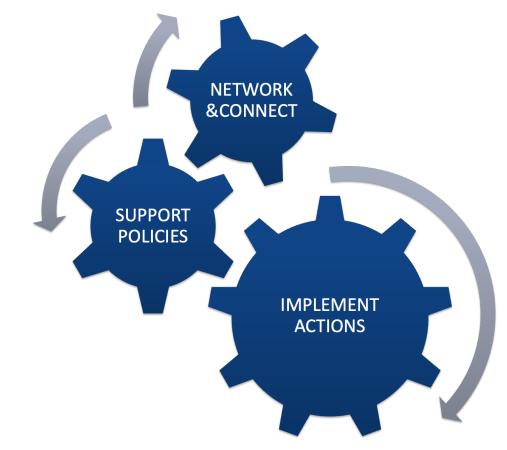
WHAT?

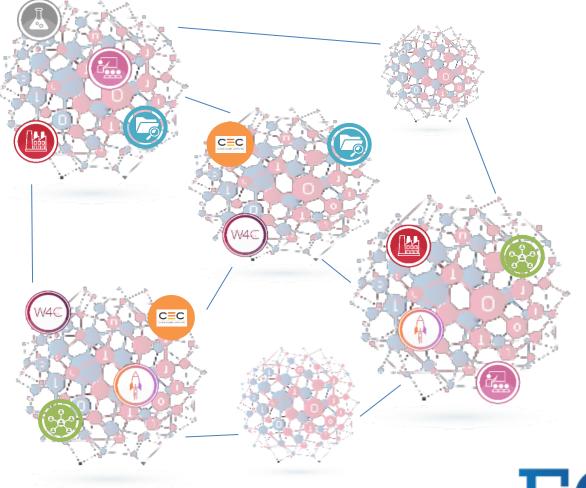
• ECSO contributes to the European Digital Sovereignty & Strategic Autonomy and to the strenghtening of Europe's cyber resilience

HOW?

- By empowering communities and shaping the European cybersecurity ecosystem
- By federating and providing a platform for collaboration for various stakeholders
- By bringing together the private and public sectors, facilitating their dialog and joint actions







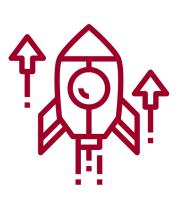




Overview of ECSO Members



Large companies (users and providers)



SMEs & start-ups



Research centres,
Universities



European, National and Regional clusters & associations



Local, regional and national public administrations



Investors



End-users and operators of critical infrastructures and essential services

As of today, ECSO counts 273 Members





WG1 - Standardisation, Certification and Supply Chain Management

Our activities

Support the roll-out of EU ICT security certification schemes, standard and legislative recommendations by:

- Understanding and presenting the industry's challenges when using standards and certification schemes
- Understanding the needs of the market, identifing the gaps in standardisation and proposing a roadmap for priorities
- Defining methodologies and approaches to facilitate and support the use of certification schemes

Facilitate the establishment of trusted and resilient supply chains in Europe by:

- Analysing the impact of cybersecurity policies and regulations on the market from a technical perspective, and providing guidelines & recommendations on legislations and policy initiatives
- Analysing and defining best practices for organisations, both product / service providers and users / integrators

Who participates?

Certifiers, test labs, component manufacturers, system integrators, service providers, national public administrations and RTOs.

Collaborations











The value of certification: important factors

- Digital transformation and increase reliance on new technologies
- Trusted supply chain to ensure business and service resilience
- 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

Customers: Certification provides the appropriate level of confidence that specific requirements have been fulfilled.

Vendors: Certification demonstrates that their products or services have been attested to fulfill specific requirements.

CABs: Conformity assessment bodies provide independent evaluation on products' compliance and issue certificates that attest the objective unbiased verification of the certified product.



Challenges of the industry: some examples

Vendors CABs

Maintaining compliance is tough. Components in the product are not all certified using the same schemes or at the same assurance levels.

Monitoring suppliers' activities to meet a product's multi-certification requirements is not easy.

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

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

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

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



Product Certification Composition System Security and Certification Considerations

Product Certification Composition

Achieve cost effective certification using different schemes (products, processes and services)

• Scheme composition is a key factor allowing to build a trusted and resilient multi-technological domains using horizontal components to build an end-product

System Security and Certification Considerations

Systems are mission specific, and the risk is managed for its full dimension crossing all life cycle stages from design, procurement, testing, integration, implementation, operation, maintenance, retrofit and decommissioning.

- Relevance of the cyber security risk perimeter and of a high-level risk assessment done in a coherent framework
- Important security notions of the system lifecycle: governance, maturity and diversity of processes, products and people that can design, build and ultimately run a mission-specific system

Supply chain management

Assess the integrated products and focus on best practices to ensure that the suppliers are trustworthy and demonstrate in a harmonized way the capabilities and the security of the products / services / systems

• Relevance for policy aspects: NIS2, Cyber Resilience Act, ...



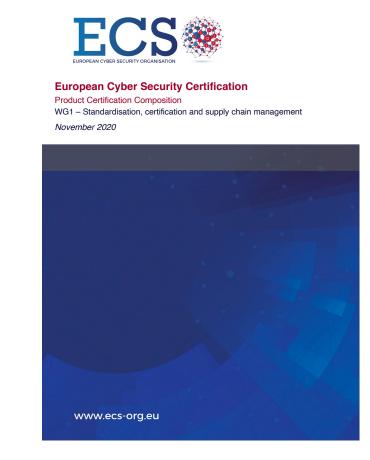


WG1 - Standardisation, Certification and Supply Chain Management

ECSO Product Certification Composition

Goal: Support a Supply Chain of Trust - knowing from where you're sourcing components, software or hardware and trusting the security inside while having full visibility of each layer of security through composition

- 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 certified products



Available at https://ecs-org.eu/publications?f=11

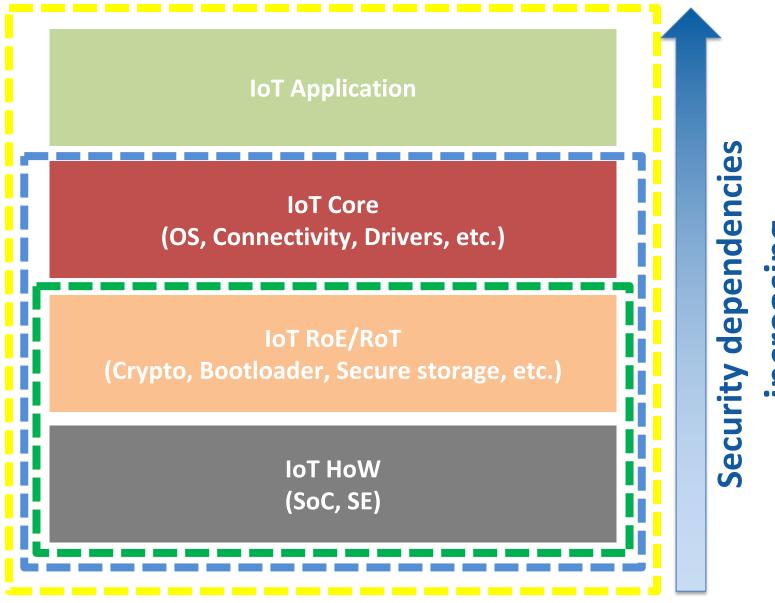


WG1 - Standardisation, Certification and Supply Chain Management

ECSO Product Certification Composition

Composition document – underlying principles and practical aspects

- Initial considerations for composition:
 - > Bottom-up, top-down, mix
 - > Within the **same** scheme (standard) or **multiple** schemes
 - > Component tightly integrated or independent
- Guidelines for certification composition and steps
- Component certification elements that might be necessary for assessment







ECSO Product Certification Composition

Challenges for an effective schemes' composition

- Harmonized notion of "intended use"
- Risk assessment approach
- Comparable assurance levels, e.g., a substantial level should be comparable from one scheme to another, e.g., in term of effort from the CAB and obligations on the product provider
- Output Information from a certification (beyond the certificate)
 - > e.g., CC/EUCC security target need a CC expert reader but some information such as security assumption about the deployment environment are crucial for the integrator



aCtive sEcurity foR connecTed devIces liFecYcles (10/22 - 09/25)



CERTIFY defines a methodological, technological, and organizational approach towards IoT security lifecycle management based on

- security by design support,
- ii. continuous security assessment and monitoring
- iii. timely detection, mitigation, and reconfiguration,
- iv. secure IoT Over-The-Air (OTA) updating, and
- v. continuous security information sharing.
- CERTIFY will validate the architecture through cutting-edge use-cases and pave the way towards innovative security in a broad spectrum of IoT environments
- CERTIFY will develop a dynamic runtime security evaluation methodology to verify lifecycle-wide loT device security and continuous (re-)certification methodology

Composition within the same scheme or across scheme can facilitate the (re-)certification following a change in security requirements and threat landscape







Key takeaways

Build a trusted and resilient multi technological domains using horizontal components to build an end-product

Cost effective certification using different schemes (products, processes and services)

Composition is considered as a certification enabler because it facilitates using multiple components by multiple suppliers





Benefits of becoming a Member of ECSO

JOIN ECSO's policy Task Force and Working Groups

BOOST your market visibility

GAIN ACCESS to investments and funding opportunities at EU and national levels

TAKE THE LEAD in proposing new initiatives and services to build the European cybersecurity Market

GROW your business network with other members of the Community

SHARE information and best practices with your counterparts

INTERACT with legislators and decision makers at EU and national level

BE PART OF the organisation federating the European cybersecurity community

RECEIVE TIME-SENSITIVE POLICY UPDATES straight into your inbox

GET INVOLVED in ECSO's six Working Groups (WG), task forces and in over ten initiatives of choice

GAIN THE OPPORTUNITY to manage the organisation and drive common opinions

VISIBILITY though ECSO channels, targeting European cybersecurity stakeholders

COMMUNICATION activities to promote your content via articles, interviews, blogs and more, published on a dedicated Member section and shared on ECSO's newsletter

UNLIMITED ACCESS to the ECSO Cybersecurity Awareness Calendar

