

ACCREDITATION

CONFIANCE
NUMÉRIQUE

SURVEILLANCE
DU MARCHÉ

MÉTROLOGIE

NORMALISATION

ILNAS

Welcome
Bienvenue
Willkommen

National Digital Trust Body -

Trust Services, eArchiving, Cybersecurity Certification,
Cyber Resilience & AI

Alain Wahl

27/11/2025



Introduction – Digital Trust Body

eIDAS Regulation

eArchiving Regulation

Cybersecurity Act

Cyber Resilience Act

AI Act

Introduction – Digital Trust Body

eIDAS Regulation

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AI Act

- **National supervisory body for**
 - Trust service providers
 - Digitisation or e-archiving service providers (PSDCs – « Prestataires de Services de Dématérialisation ou de Conservation »)
- **Management and publication of Luxembourg's trusted list**
- **Member of the European Cybersecurity Certification Group ('ECCG') and National cybersecurity certification authority ('NCCA')**
 - EUCC: Common Criteria; EUCS: Cloud Scheme;
 - EUDIW: Digital Identity Wallet; EU5G.
- **Promotion of good practices**
- **NIS CG WS PQC cooperation group on post-quantum cryptography**
- **New missions to come: AI Act, Cyber Resilience Act, ...**

- ☐ News and newsletters
- ☐ INAP Training on e-signatures and trust services
- ☐ DLH trainings, Master in Technopreneurship
- ☐ <https://portail-qualite.public.lu>



Strengthen the national and EU Single Market by boosting TRUST and CONVENIENCE in secure and seamless cross-border electronic transactions.

Trust services

Ensure a level playing field for the security of trust services

- Contributing to the protection of users
- Contributing to the functioning of the EU internal market (Recital (36) eIDAS Regulation)

eArchiving services

Guarantee that the dematerialization and preservation process of documents meets specific technical and organizational requirements based on ISO/IEC 27001

- Ensure confidentiality, integrity, availability (ISO/IEC 27001)
- Authenticity, trustworthiness, and operability for digitized or preserved documents

Cybersecurity certification

Ensure a level playing field for the certification of ICT products, ICT services, ICT processes and managed security services



Introduction – Digital Trust Body

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eArchiving Regulation

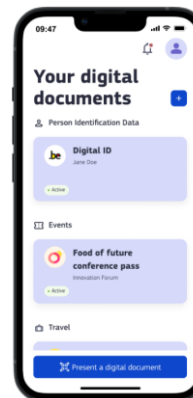
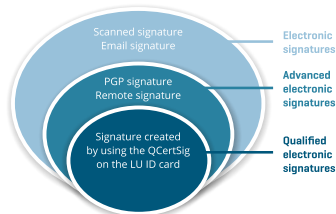
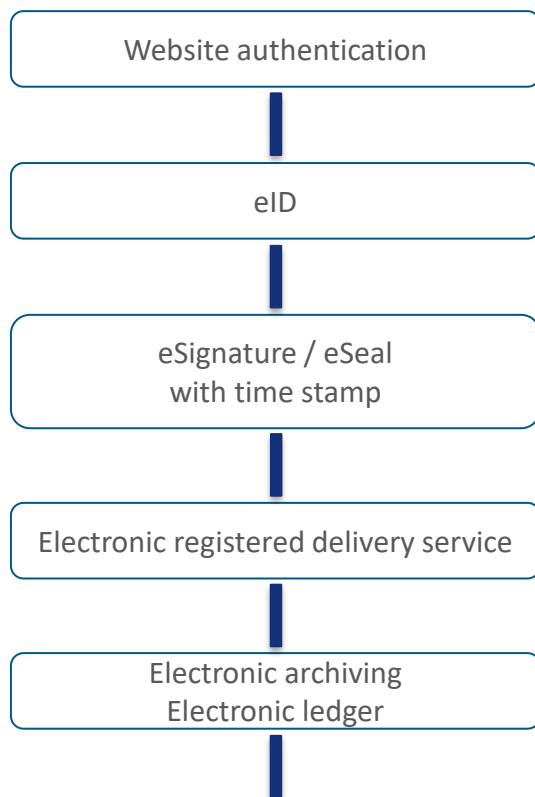
Cybersecurity Act

Cyber Resilience Act

AI Act

A – Regulation (EU) No 910/2014 on electronic identification and trust services

Trust Services



Identification & authentication



Store & present attestations of attributes



Sign & seal electronically

Trust services under the EUDI Framework

General Trust Services

- electronic signatures
- electronic seals
- electronic time stamps
- electronic documents
- electronic registered delivery services
- certificate services for website authentication
- electronic signature and seal creation devices



New - Relevant to EUDI Framework

- **electronic archiving**
- **electronic attestation of attributes**
- **electronic ledgers**
- **management of remote qualified signature creation device**
- **management of remote qualified seal creation device**

A – Regulation (EU) No 910/2014 on electronic identification and trust services

Browser window: eIDAS - Map | www.eid.as/tsp-map/#/

eIDAS Regulation Map go.eIDAS Blog Forum News in

Trust Service Providers

267 All
193 CA
eSignatures
eSeals
Website
150 TSA
23 PresS
47 EDS
36 ValS
eSignatures
eSeals

Status
Granted
Countries
AT, BE, BG, CY ...

SEARCH

Map showing the number of Trust Service Providers (TSPs) in various European countries:

- AT: 6
- BE: 52
- BG: 0
- CY: 0
- DE: 31
- DK: 3
- EE: 2
- ES: 0
- FI: 9
- FR: 14
- GR: 15
- IE: 3
- IT: 39
- LU: 1
- NL: 7
- PT: 0
- RO: 4
- SE: 1
- SI: 7
- SK: 5
- UK: 3

Trust Service Providers:

- LuxTrust S.A.
- BE INVEST International S.A.
- InCert
- Latvian State Radio and Television center
- Malta Electronic Certification Services Ltd
- eWitness Malta Ltd
- CIBG
- Digidentity B.V.
- KPN B.V.
- Ministerie van Defensie
- Ministerie van Infrastructuur en Waterstaat
- DigiCert Europe Netherlands B.V.
- Cleverbase ID B.V.



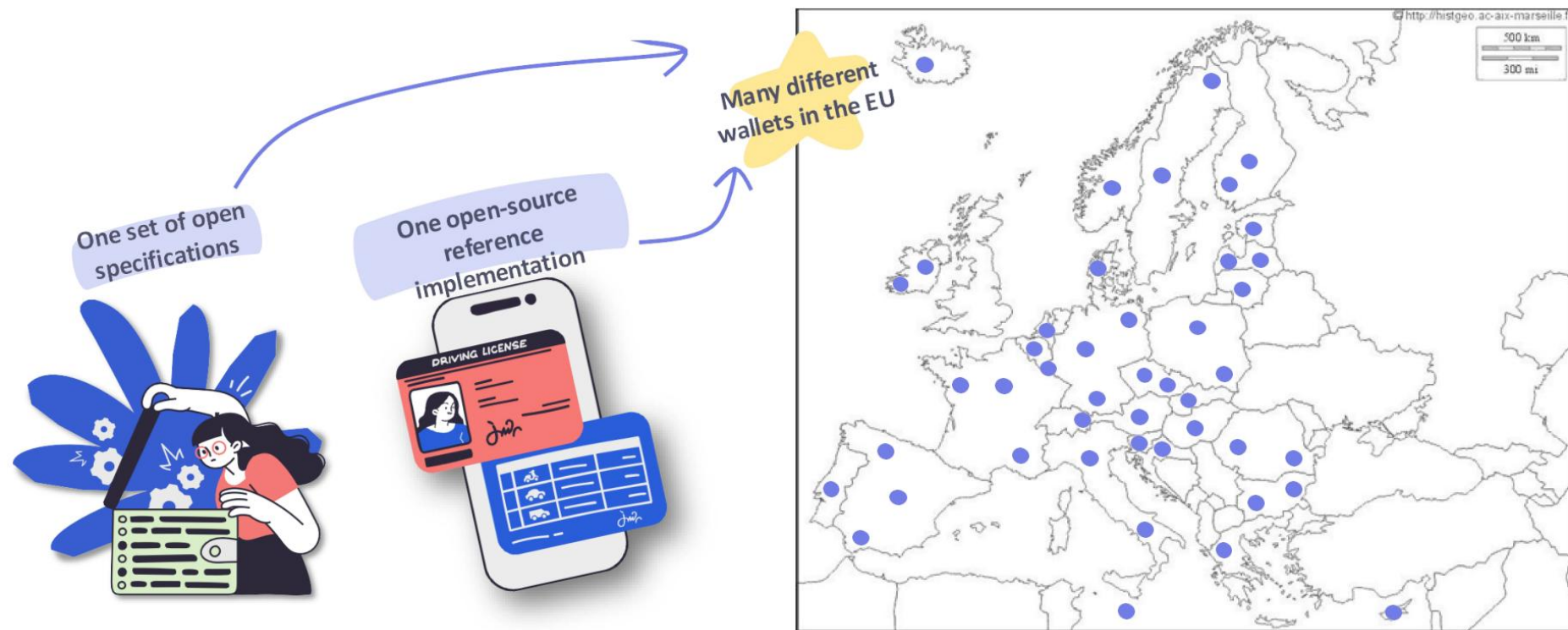
Legal effects (eSignatures, eSeals, eTimeStamps and eRegistered Delivery Services)

	eSignatures	eSeals	eTimeStamp
Non-discrimination	Yes	Yes	Yes
Legal effect of qualified type	Equivalent legal effect of handwritten signatures	Presumption of integrity and of correctness of the origin of the data	- Presumption of accuracy of the date and the time it indicates - Presumption of the integrity of the data to which the date and time are bound
Cross-border recognition within EU	Yes, for qualified eSignatures	Yes, for qualified eSeals	Yes, for qualified eTimeStamps

	eRegistered Delivery Services	Qualified eRegistered Delivery Services
Non-discrimination	Yes (for sent and received data)	Yes (for sent and received data)
Legal effect	No	- Presumptions of the integrity of the data, the sending of that data by the identified sender, the receipt of the data by the identified addressee and the accuracy of the date and time of the data. Equivalent legal effect of registered postal mail
Cross-border recognition within EU	No	Yes

Open

There will be multiple EU Digital Identity Wallets, all built to a common set of open specifications by the European Commission and Member States. They will be **interoperable**, and both the reference implementation and all European Wallet Apps for consumer devices will be open source.



Wallets for Businesses



Business-to-business and business-to-government scenarios including regulatory compliance, company registration, and power of attorney

Wallets for Travel



National and Cross-border travel scenarios including local public transport, long-distance travel, shared mobility border control, hotel check-in

Wallets for Payments & Banking



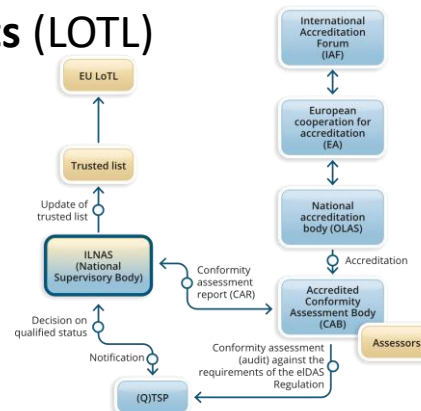
Payment and banking scenarios including a standardised process for Know-Your-Customer, Strong Customer Authentication, and offline transactions and processes

Wallets for Age Verification



Age verification scenarios including the issuance of a pseudonymous attestation containing only age information by a trusted third party

- Each EU Member State maintains a **national trusted list**
- The Trusted List Luxembourg contains the **qualified trust service providers** established in Luxembourg as well as the **qualified trust services** they provide
- National trusted lists have a **constitutive effect**
- The trusted list also contains a link to the **European List of Trusted Lists (LOTL)**



eIDAS Dashboard

An official website of the European Union

Privacy statements of eIDAS Dashboard

Business, Economy, Euro

eIDAS DS EU LOGIN

Home / Trust Services / Browse the eIDAS Lists / EU/EEA Trusted Lists / Luxembourg

Trusted List Luxembourg

← Back to TL Backbone

Trust service providers

Filter: Displays the elements that have the entered text in any of their attributes: name, electronic address, type, status, history, ...

Search Reset

Legend:

- Active Qualified Trust Services
- Active not qualified Trust Services
- Inactive Trust Services

Currently active trust service providers

BE INVEST International S.A.

- QCert for ESig
- QCert for ESeal
- QTimestamp
- QCert for ESig
- QCert for ESeal
- QTimestamp

InCert

- QTimestamp

LuxTrust S.A.

- QCert for ESig
- QCert for ESeal
- QVal for QESig
- QVal for QESeal
- QTimestamp
- QeRDS
- QCert for ESig
- QWAC
- QVal for QESig
- QVal for QESeal
- QTimestamp
- Timestamp

Trust service providers without currently active trust services

Detailed information

B – Missions of ILNAS

eIDAS Dashboard
eidas.ec.europa.eu/efda/trust-services/browse/eidas/tls

List of Trusted Lists


European Union
...
Issue date 15/10/2025

Trusted Lists

 Austria ... Issue date 15/09/2025	 Belgium ... Issue date 11/08/2025	 Bulgaria ... Issue date 17/07/2025
 Croatia ... Issue date 01/07/2025	 Cyprus ... Issue date 31/10/2025	 Czech Republic ... Issue date 22/11/2025
 Denmark ... Issue date 17/10/2025	 Estonia ... Issue date 29/10/2025	 Finland ... Issue date 21/10/2025
 France ... Issue date 24/11/2025	 Germany ... Issue date 07/10/2025	 Greece ... Issue date 22/07/2025
 Hungary ... Issue date 29/08/2025	 Iceland ... Issue date 17/09/2025	 Ireland ... Issue date 16/10/2025
 Italy ... Issue date 18/11/2025	 Latvia ... Issue date 15/09/2025	 Liechtenstein ... Issue date 19/11/2025
 Lithuania ... Issue date 13/11/2025	 Luxembourg ... Issue date 23/10/2025	 Malta ... Issue date 16/09/2025
 Netherlands ... Issue date 03/07/2025	 Norway ... Issue date 17/11/2025	 Poland ... Issue date 29/10/2025
 Portugal ... Issue date 06/11/2025	 Romania ... Issue date 10/11/2025	 Slovakia ... Issue date 07/11/2025
 Slovenia ... Issue date 02/07/2025	 Spain ... Issue date 19/11/2025	 Sweden ... Issue date 25/11/2025
 United Kingdom ... Issue date 31/12/2020		

Last known version of the TL of UK published just before leaving the eIDAS TLs Scheme

Last known version of the trusted list of UK published just before leaving the eIDAS Trusted Lists Scheme as described in <http://uri.etsi.org/TrstSvc/TrustedList/schemerules/EUcommon/>. This trusted list is displayed here for the sole purpose of the verification of the outputs of qualified trust services (e.g. qualified electronic signatures) that were created before that moment.

eIDAS Dashboard
eidas.ec.europa.eu

Third Countries AdES List of Trusted Lists


European Union
...
Issue date 02/07/2025

Trusted Lists


Moldova
...
Issue date 26/11/2025


Ukraine
...
Issue date 10/11/2025

Information on the signatory (as contained in the qualified certificate for electronic signatures)

Signed and all signatures are valid.

Signatures

Validate All

Rev. 1: Signed by Alain Wahl <alain.wahl@ilnas.etat.lu>

Signature is valid:

Source of Trust obtained from European Union Trusted Lists (EUTL).

This is a Qualified Electronic Signature according to EU Regulation 910/2014

Document has not been modified since this signature was applied

Signer's identity is valid

Signing time is from the clock on the signer's computer.

Signature is LTV enabled

> Signature Details

Last Checked: 2018.06.13 13:57:42 +02'00

Field: Signature2 on page 1

[Click to view this version](#)

Document Locked by Signature2

ILNAS	Digital trust Process	
	ILNAS/PSCQ/Pr001	
Approved by: Alain Wahl	Version 5.0 – 22.09.2017	Page 1

ILNAS/PSCQ/Pr001 Supervision of Qualified Trust Service Providers (QTSPs)

Modifications: New edition of the document

Type of signature: **Qualified electronic signature** (based on a QCertSig on a QSigCD)

Signature verification used the **European List of Trusted Lists**

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Electronic archiving

- Goal

preserve **integrity, confidentiality, availability** of digital documents over extended periods of time

- Legal value of electronic documents:

Law of 25 July 2015 on electronic archiving

- Revolutionary aspect of the e-archiving framework in Luxembourg

digitization of analog documents, preserving the probative value

- New **eIDAS trust service**: electronic archiving service

Objectives of the law

- Legal framework for digitization and e-archiving services;
- Rules for service providers who request the “PSDC” status (digitization and e-archiving service provider)

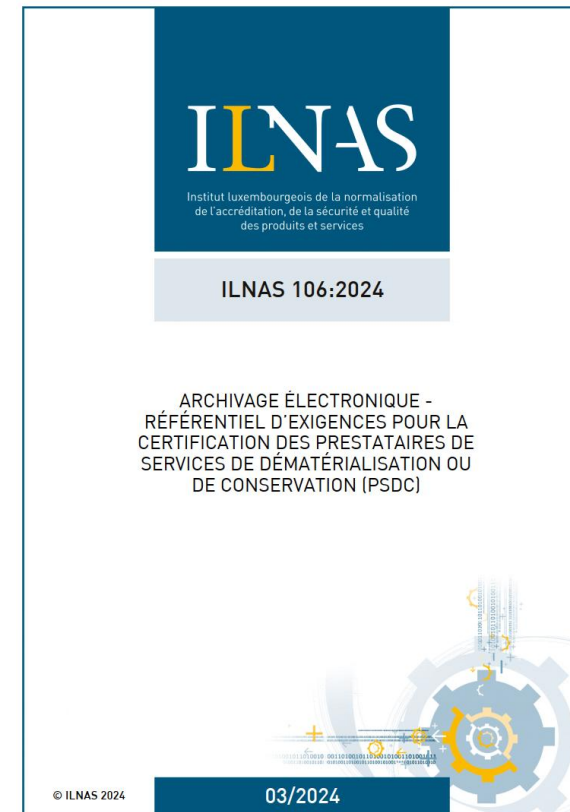
About the legal value of electronic copies

- Electronic copies **digitised by a PSDC** ➡ **Presumption of conformity** with the original document
- An electronic copy cannot be rejected by a judge
 - because of its electronic format (cf. eIDAS)
 - because it has not been created by a PSDC

Nom et adresse actuels de la personne morale	Numéro d'Identification	Périmètre actuel
Lab Luxembourg S.A. 3, rue Dr. Elvire Engel L-8346 Grass	2016/9/001 (Historique)	Dématérialisation & Conservation
Numen Europe S.A. 2, rue Edmond Reuter L-5326 Contern	2016/9/002 (Historique)	Dématérialisation & Conservation
KPMG Services S.à.r.l. 39, avenue John F. Kennedy L-1855 Luxembourg	2017/9/004 (Historique)	Dématérialisation & Conservation
Centre des technologies de l'information de l'Etat 560, rue de Neudorf L-2220 Luxembourg	2017/9/006 (Historique)	Conservation
LuxTrust S.A. 13-15, Parc d'activités L-8308 Capellen	2024/9/008 (Historique)	Conservation

National Standard ILNAS 106:2024

- Developed by the technical committee ILNAS/TC 106 (founded in 2018)
- Aim: develop a national standard on digitization and e-archiving that can serve as the basis for the certification of PSDCs
- Published as a national standard in July 2022, updated in Mars 2024
- National standard ILNAS 106:2024 is based on the international standards
 - ISO/IEC 27001:2022: Information Technology — Security Techniques — Information Security Management Systems — Requirements
 - ISO/IEC 27002:2022: Information Technology — Security Techniques — Code of Practice for Information Security Controls
 - ISO 14641:2018: Electronic document management — Design and operation of an information system for the preservation of electronic documents — Specifications
- A few additional security controls (e.g., on cryptography, regular verifications of the integrity of archived documents, etc.)



Available free of charge at

<https://portail-qualite.public.lu/fr/documentations/confiance-numerique/>

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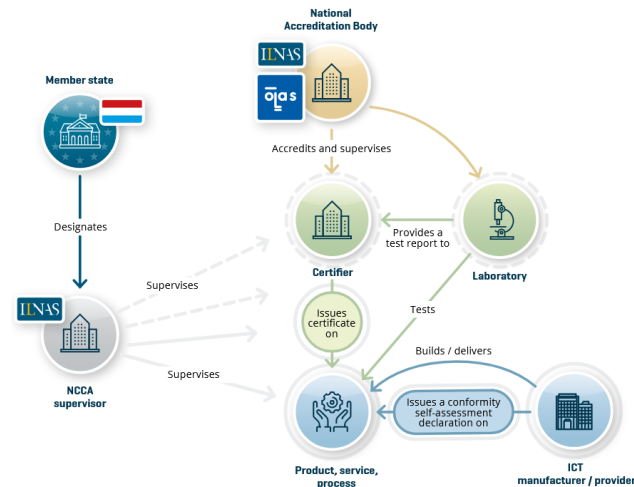
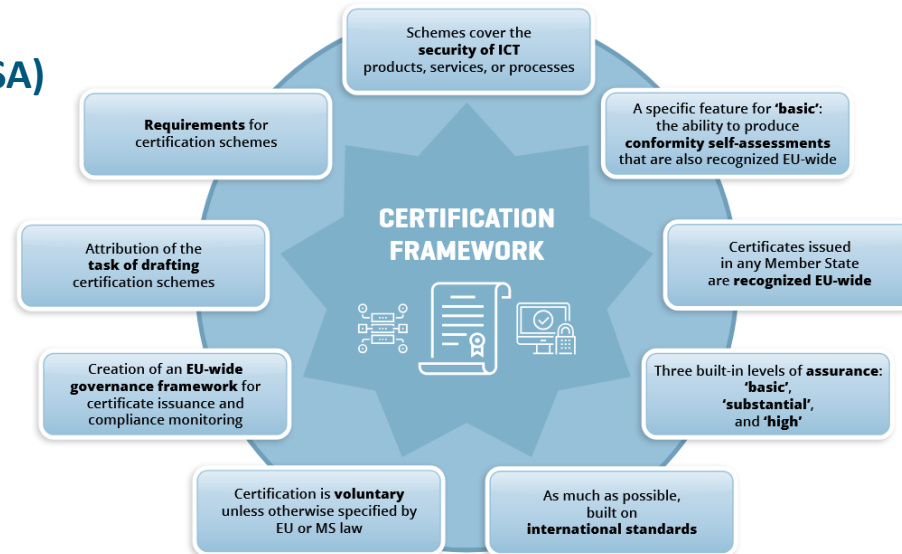
eArchiving Regulation

Cybersecurity Act

Cyber Resilience Act

AI Act

- **European Framework for Cybersecurity Certification Schemes (Cybersecurity Act, or CSA)**
- **Topics of Cybersecurity Certification Schemes**
 - *IT products with security functions (active)*
EUCC – Based on “Common Criteria” standards
 - *EUCCS – Cloud Scheme*
 - *EU5G equipment (in preparation)*
 - *Digital ID wallet (in preparation)*
 - *Managed security services (in preparation, new)*
- **ILNAS – National Cybersecurity Certification Authority (NCCA)**
 - *Supervision of certificates issued within the national territory*
 - *Certification at the assurance level “high”*
Certification can be delegated by general delegation



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Legislative Act

Regulation (EU) 2024/2847 of 23 October 2024 on horizontal cybersecurity requirements for products with digital elements (hereinafter referred to as “CRA”).

Applicable from 11 December 2027 (with exceptions for some articles)

Objective

The CRA aims to strengthen the cybersecurity of digital products by imposing security requirements from the design stage and throughout the entire lifecycle.

The goal is to reduce vulnerabilities and the impact of cyberattacks on consumers and businesses.

The regulation defines a risk-based approach and sets minimum requirements for products and manufacturers.

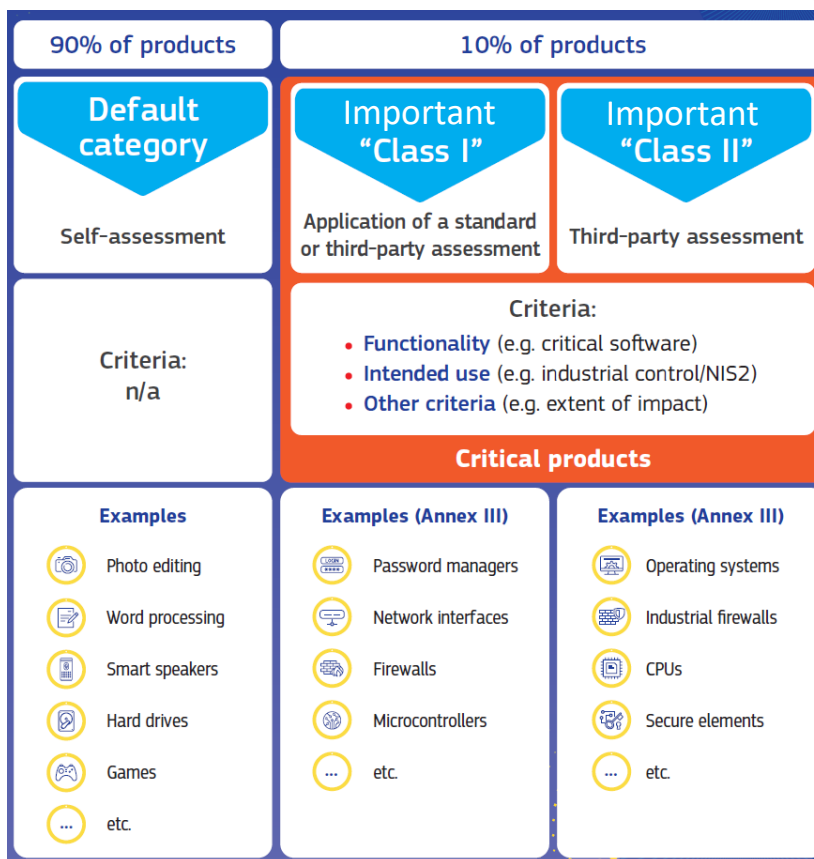
Scope

The CRA applies to products with digital elements made available on the market, where the intended or reasonably foreseeable use includes a direct (e.g., mobile phones) or indirect (e.g., smartwatches), logical or physical connection to a device or a network.

CLASSIFICATION OF PRODUCTS

The CRA defines 4 classes for products with digital elements:

1. Default category
2. Important products – “Class I”
e.g. password managers, network interfaces, smart home general purpose virtual assistants, ...
3. Important products – “Class II”
e.g. firewalls, intrusion detection and prevention systems, ...
4. Critical products
e.g. smartcards, smart meter gateways, ...



The conformity assessment procedure for a product with digital elements depends on its class.

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Legislative Act

Regulation (UE) 2024/1689 of 13 June 2024 laying down harmonised rules on artificial intelligence (hereinafter referred to as “AI Act”)

Objective

The AI Act establishes a common legal framework for the development and use of artificial intelligence systems within the European Union. The AI Act:

- aims to ensure trustworthy AI that respects fundamental rights, health, safety, and the environment;
- prohibits AI uses that pose unacceptable risks and imposes obligations based on risk level;
- promotes innovation while ensuring the free movement of AI-based products and services within the internal market.

Scope

The AI Act applies to all actors involved in placing on the market, using, or distributing AI systems in the EU.

It excludes military uses, non-commercial research activities, and personal uses.

Open-source systems are generally excluded, except when they present high risks.

The AI Act prohibits certain uses of artificial intelligence.

These include AI systems that:

- manipulate people's decisions or exploit their vulnerabilities;
- evaluate or rank individuals based on their social behavior or personal traits;
- predict the likelihood of a person committing a crime;
- collect facial images from the internet or from video surveillance footage;
- infer emotions in the workplace or in educational institutions;
- classify individuals based on their biometric data.

However, certain exceptions are provided for the application of the AI Act, such as searching for missing persons, preventing terrorist attacks.



Informez-vous
auprès du Point de
Contact Produits



Informez-vous sur
l'archivage
électronique

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actualités ?



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ACTUALITÉS](#)



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normalisation et à la
métrologie



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services
d'étalonnages

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produit alimentaire ou non
alimentaire ?



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*Thank you
Merci
Danke*

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- ❑ DLH, INAP trainings, Master in Technopreneurship
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