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**SECURITY
MADEIN.LU**
THE CYBERSECURITY COMPETENCE CENTER

CYBERSECURITY BREAKFAST 18

Cybersecurity in the realm
of digital trust and e-archiving

Alain Wahl – Digital trust department
Luxembourg, le 29.9.2017



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CYBERSECURITY BREAKFAST

#18

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Institut luxembourgeois de la normalisation,
de l'accréditation, de la sécurité et qualité
des produits et services

**FRIDAY
SEPTEMBER 29TH, 2017**

SECURITYMADEIN.LU's
new office (in the HSBC building)

16 Boulevard d'Avranches
1160 Luxembourg

From 8.30 am until 10.30 am

AGENDA

Cybersecurity in the realm of digital trust and e-archiving

- 8:30** Registration opens
- 9:00** Keynote "Digital trust and e-archiving" by *Alain WAHL, Head of Digital Trust Department (ILNAS)*
- 9:20** Roundtable with the participation of *Alain Wahl, Head of Digital Trust Department (ILNAS), Lionel Antunes, Head of Internal Audit (CTIE), Johann Alessandrini, Lead Auditor, PECB EUROPE S.à r.l. and Jean Racine, Chief Business Development Officer, Lab Luxembourg S.A.*
- 10:00** Conclusions and networking coffee

*Note: As of 2017 a "no-show fee" of 25€ will be charged.

I ILNAS

- A – Missions
- B – Digital trust department
- C – Objective

II Trust services – eIDAS regulation

- A – Scope
- B – Use case

III Digitisation and e-archiving

- A – National law on e-archiving
- B – Technical regulation
- C – Supervision scheme
- D – Information security requirements
- E – Digitisation
- F – Digital preservation

IV Round table

Institut Luxembourgeois de la Normalisation, de l'Accréditation, de la Sécurité et qualité des produits et services

- **Creation:** Law dated July 14, 2014 (repealing the amended Law of May 20, 2008)
- **Status:** Public administration under the authority of the Minister of the Economy
- **Total staff:** 37 civil servants (March 2017)



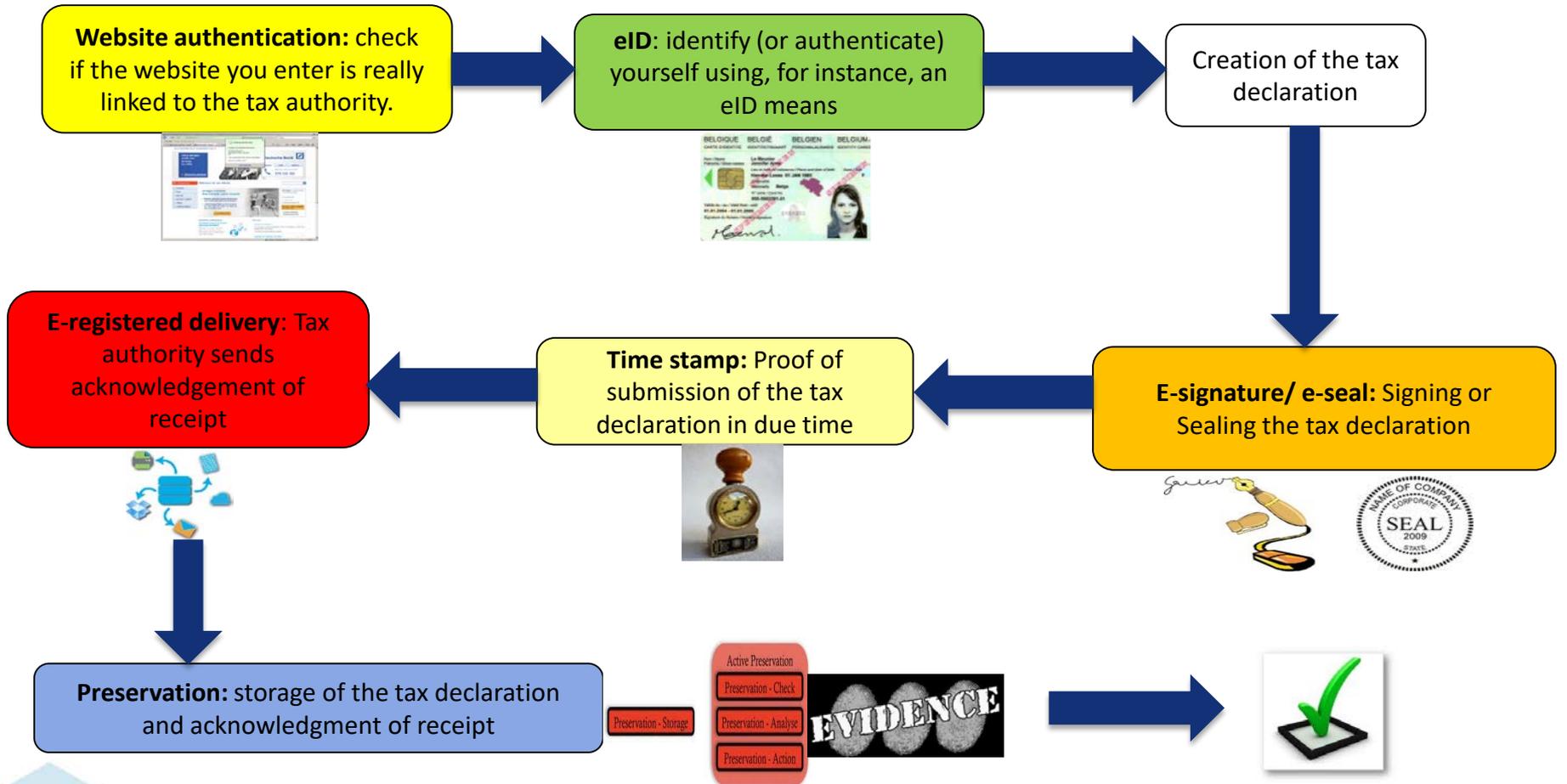
- **National supervisory body for**
 - Trust service providers
 - Digitisation or e-archiving service providers (PSDCs – « Prestataires de Services de Dématérialisation ou de Conservation »)
- **Management and publication of Luxembourg's trusted list**
- **Promotion of good practices for trust service providers and digitization or e-archiving service providers**
- **National participant in the *European Multistakeholder platform on ICT Standardisation***
- <https://portail-qualite.public.lu/fr/confiance-numerique/index.html>



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



E-transactions workflow – Submitting a tax declaration



A-n563 du 14 juin 2017 - RGD art. 4(1) loi archivage élect. - modification (002).pdf - Adobe Acrobat Pro DC

File Edit View Window Help

Home Tools A-n563 du 14 juin ... x

1 / 54 40.4%

Signed and all signatures are valid. Signature Panel

Signatures

Validate All

Rev. 1: Signed by Ministère d'Etat

Signature is valid:

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

Document has not been modified since this signature was applied

Signer's identity is valid

The signature includes an embedded timestamp.

Signature is LTV enabled

Signature Details

Certificate Details...

Last Checked: 2017.06.21 15:03:32 +02'00'

Field: Signature1 (invisible signature)

JOURNAL OFFICIEL
DU GRAND-DUCHÉ DE LUXEMBOURG

MÉMORIAL A
N° 563 du 14 juin 2017

Règlement grand-ducal du 22 mai 2017 modifiant le règlement grand-ducal du 25 juillet 2015 portant exécution de l'article 4, paragraphe 1^{er}, de la loi du 25 juillet 2015 relative à l'archivage électronique.

Nous Henri, Grand-Duc de Luxembourg, Duc de Nassau,
Vu la loi du 25 juillet 2015 relative à l'archivage électronique et notamment son article 4, paragraphe 1^{er};
Vu les avis de la Chambre de commerce et de la Chambre des métiers;
Notre Conseil d'État entendu;
Sur le rapport de Notre Ministre de l'Économie et après délibération du Gouvernement en conseil;

Arrêtons:

Art. 1^{er}.
L'annexe du règlement grand-ducal du 25 juillet 2015 portant exécution de l'article 4, paragraphe 1^{er}, de la loi du 25 juillet 2015 relative à l'archivage électronique est remplacée par l'annexe jointe au présent règlement grand-ducal.

Art. 2.
Notre Ministre de l'Économie est chargé de l'exécution du présent règlement qui sera publié au Journal officiel du Grand-Duché de Luxembourg.

Le Ministre de l'Économie,
Etienne Schneider

Palais de Luxembourg, le 22 mai 2017.
Henri

- **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 (= eIDAS)
 - because it has not been created by a PSDC

- **Copy with probative value**

- Copy with preserved **integrity** (property of accuracy and completeness (ISO/IEC 27000:2014))
- **Identical** reproduction of the original
- Created according to procedures with **proof**, which is archived as long as the copies
- **Procedures** are systematically followed
- Preserved with care
 - In a systematic way
 - Integrity assured

Ex ante verification of these properties

=> giving the electronic document a probative value

Technical regulation for a management system and security controls for digitization or e-archiving service providers

- Specific requirements for digitisation or e-archiving service providers (Additional requirements to ISO/IEC 27001)
- Code of practice for digitisation or e-archiving service providers (Additional controls to ISO/IEC 27002)

JOURNAL OFFICIEL

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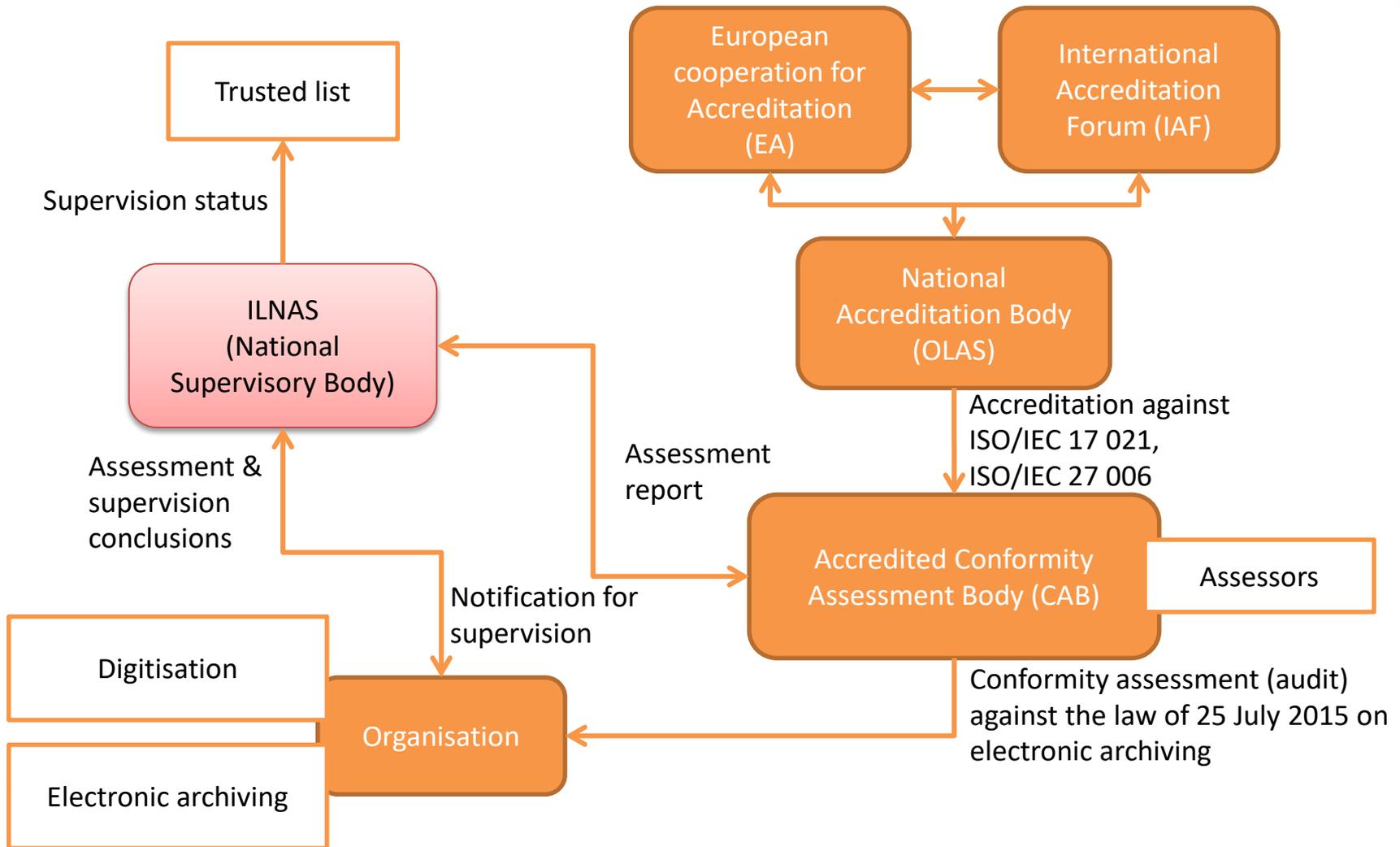
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Le Ministre de l'Économie,
Étienne Schneider

Palais de Luxembourg, le 22 mai 2017.
Henri



Grand-ducal regulation of 25 July 2015 on digitisation and preservation of documents

Grand-ducal regulation of 22 May 2017 modifying the grand-ducal regulation of 25 July 2015 on execution of article 4, 1st paragraph, of the law of 25 July 2015 on electronic archiving



<http://www.opentext.com/what-we-do/business-needs/information-governance/ensure-compliance/information-security-and-privacy>

Preservation of confidentiality, integrity, availability, authenticity, accountability, non-repudiation and reliability (ISO/IEC 27000:2016)

Grand-ducal regulation of 25 July 2015 on digitization and preservation of documents

- **Authenticity of the copy with probative value has to be assured**
 - Digitization process has to preserve the **integrity** of the content and appearance of the original
 - Every copy with probative value has to contain a **timestamp** of its creation
 - An up-to-date **log file** containing the history of the copy with probative value is instantly available



Grand-ducal regulation of 25 July 2015 on digitization and preservation of documents

- Electronic copies with probative value and digital original files have to be stored **permanently**
 - Archived with preserved **integrity** or
 - Archived as a **secured electronic document** or **signed with a qualified signature**
- If e-documents with probative value are transferred from one support to another or if the format is changed, their **concordance has to be proved by the owner**
- **Preservation systems** for e-documents with probative value have to be
 - Secure enough to preserve **integrity** of the electronic documents
 - Allow instant **access** to the electronic documents
 - Assure **authenticity and integrity** with respect to the original documents





Thank you
Merci
Danke

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Round table

ILNAS

Questions for our
experts?

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E-mail : info@ilnas.etat.lu

www.portail-qualite.lu

How do PSDCs handle

- Long-term preservation
- Information security
- General Data Protection Regulation (GDPR)

Preservation of electronic signatures, seals or certificates related to those services

- Trustworthiness in the face of technological progress/obsolescence?

Innovation

- What about blockchain?