10th Trust Services and eID Forum

eIDAS Dashboard update

Preservation of Qualified Electronic Signatures

DG DIGIT - Apostolos (Tolis) APLADAS

eIDAS Dashboard

Evolution of the eIDAS Dashboard

TRUST SERVICES

Consist of **eSignature**'s tools to create and validate electronic signatures, seals, timestamps, delivery services and certificates for website authentication

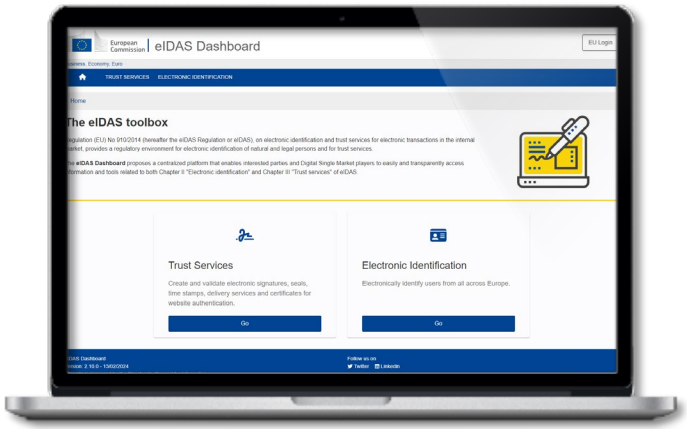
ELECTRONIC IDENTIFICATION

Electronically identify users across Europe with the help of **eID**. The Member States are obliged to notify, while the European Commission is responsible for publishing the notification scheme

2023

[eIDAS Dashboard]

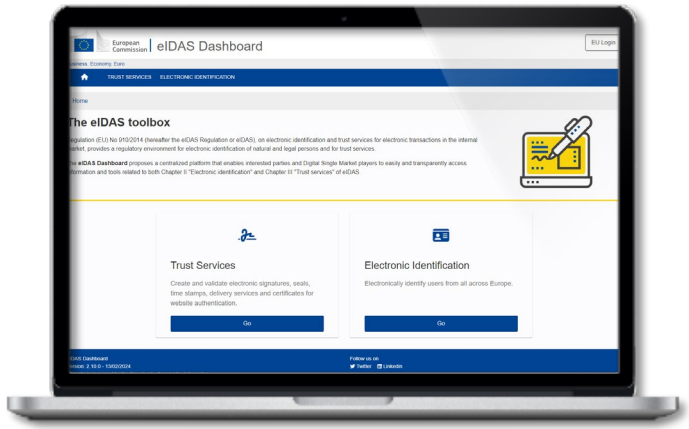
Rebranding of the dashboard when the scope was extended due to the **migration of the eID services.**



2024

[eIDAS Dashboard]

Facilitating the work of Member States and improving the quality and freshness of information in order to **increase the stability and robustness** of the ecosystem.



Introducing the latest feature: **The QWAC Validator**

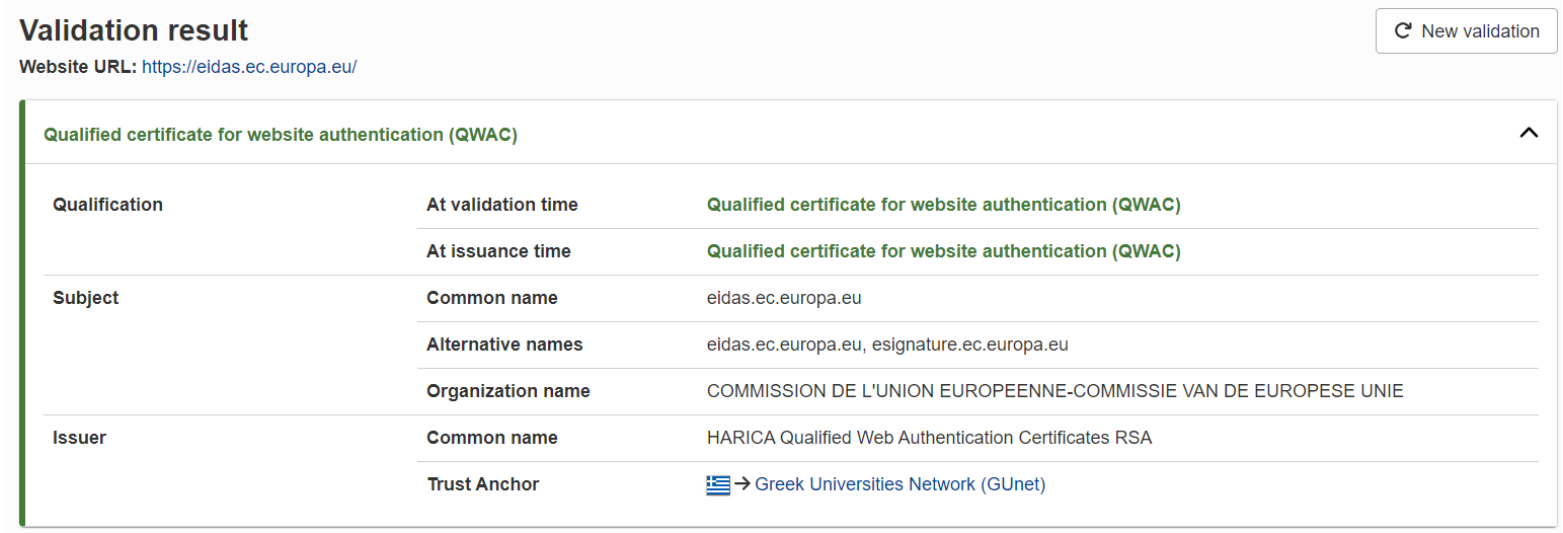
A simple, yet powerful tool that validates the website's TLS certificate

Compliant with the eIDAS Regulation (EU) No 910/2014 and utilizing the latest ETSI standards to guarantee a robust validation process.

Try out the tool now >

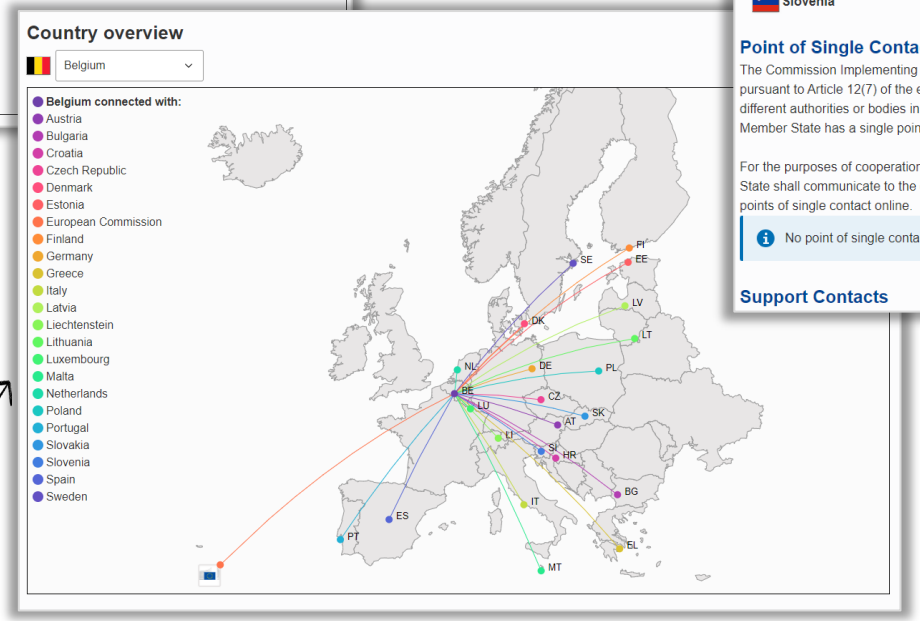
HOW IT WORKS

- The QWAC Validator streamlines **technical validation** by enabling users to test the compliance of a website's TLS certificate with eIDAS / EUDI Framework and the latest ETSI standards.
- A very **user-friendly** tool that only necessitates the website's URL.
- A **straightforward interpretation of the certificate**, facilitating a simple validation process accessible to any citizen.

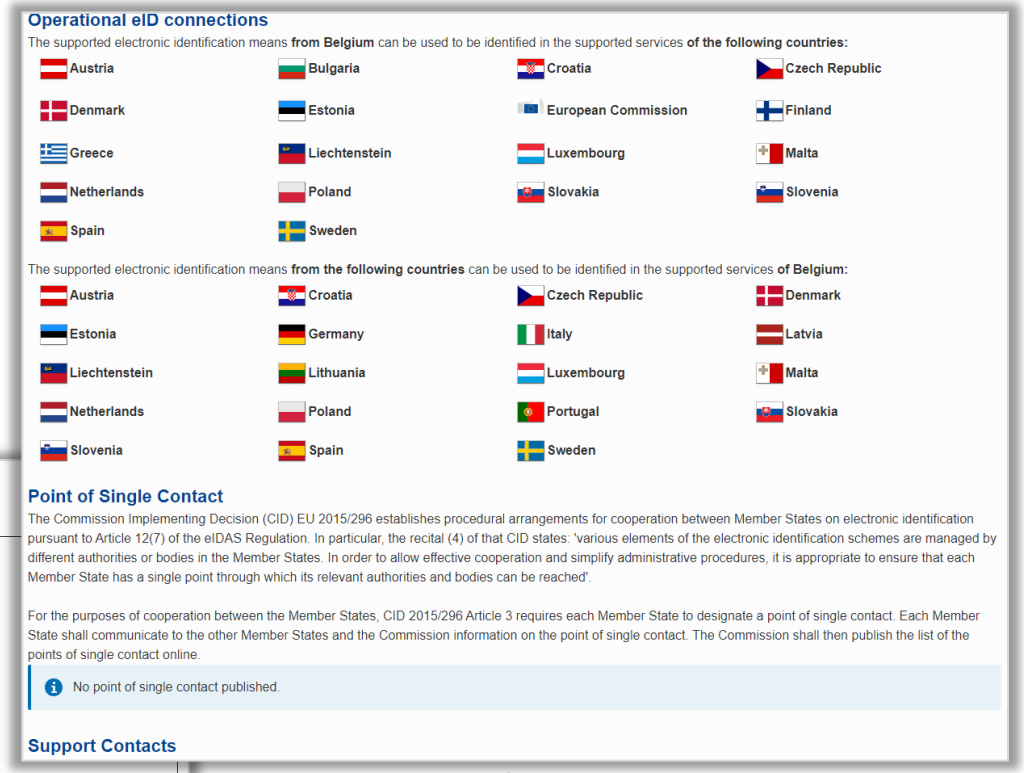


The eIDAS Network consists of interconnected eIDAS-Nodes

Interactive map



Display of connections per country



Streamlined and efficient way to find single points of contact to communicate

DSS

Last developments

DSS

2022

Accessibility

Repository migration from EC Nexus to Maven Central

2023

Interoperability

Support of Java 21 and migration to Jakarta

2023
2024

ePreservation

Validation of evidence records (RFC 6283 XMLERS, RFC 4998 ERS)

2024
2025

EUDI Framework, eWallet

Implementation of CB-AdES (CBOR signatures) and Electronic Attestation of Attributes (EAA)

Preservation of Qualified Electronic Signatures

We already live in a digital area today

+145,000 signatures in 2023 via EU Sign

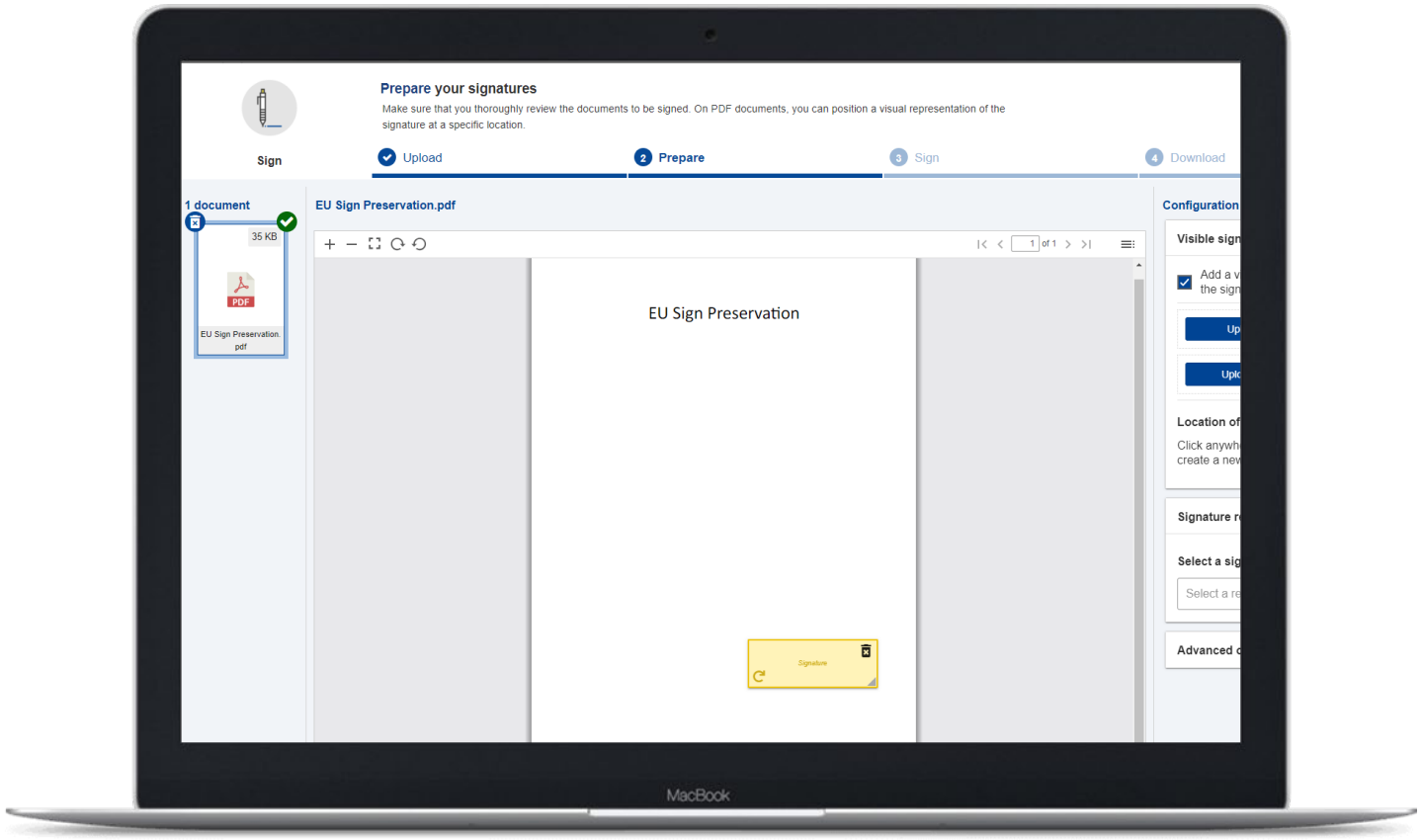
+8M seals in 2023 via EU Sign

Paperless administration

Faster and streamlined process

Secure transactions

Better user experience



But will the qualified electronic signature remain valid forever?

*The answer is "**it depends!**"*

Can the signature be **tampered or forged** afterwards?

When can the signature **lose its validity over time**?

How can we ensure the **technical validity of the signature in 5, 10, 20 or even more years** from now?

Examples

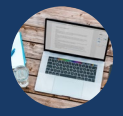
- *The signing certificate used is expired, resulting that we can no longer perform a correct validation of the signature.*
- *The cryptographic algorithm used at the signing time is considered weak.*
- *The company no longer exists and there's no representative to provide further evidence*

Using electronic signatures today is extremely convenient but **preserving them over time safeguards the convenience!**

Use case: A dispute at the Court in *n* years, while the signatory is retired by then.

1. Sign the document

- Guillaume signs a document. Preservation is automatically performed.



2. Receive the document

- Guillaume receives the signed document.

The EU Sign Preservation module takes care of **creating the evidence record** upon document signing and continuing to **maintain the validity of that evidence record for the next *n* years**.

Guillaume retires and is replaced by Alice

The case involving the document at the Court has started

4. Validate the signature

- Alice validates both the signed document and evidence record

3. Receive request from the Court

- Alice wants to retrieve the signed (by Guillaume) document for a dispute at the Court.

The right solution, at the right moment

ePreservation

2. By 21 May 2025, the Commission shall, by means of implementing acts, establish a list of reference standards and, where necessary, establish specifications and procedures for qualified electronic archiving services. Compliance with the requirements for qualified electronic archive services shall be presumed where a qualified electronic archive service complies with those standards, specifications and procedures. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 48(2).

ELI: http://data.europa.eu/eli/reg/2024/1183/oj

Article 45j

Requirements for qualified electronic archiving services

1. Qualified electronic archive services shall meet the following requirements:

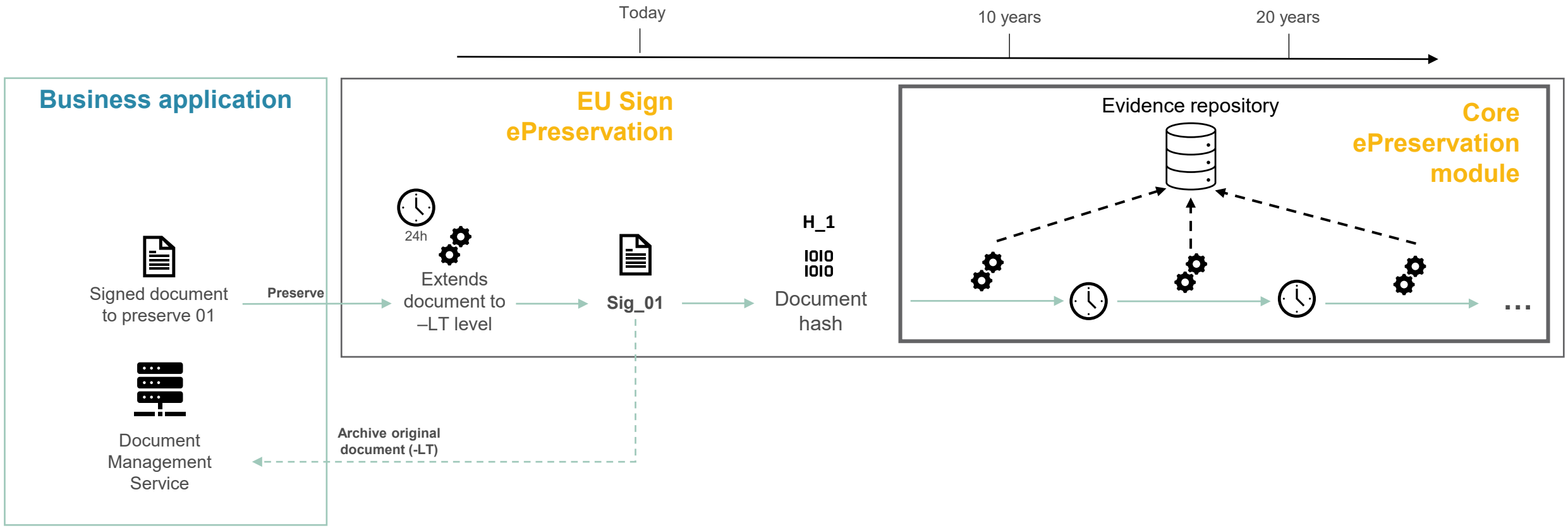
(a) they are provided by qualified trust service providers;

(b) they use procedures and technologies capable of ensuring the durability and legibility of electronic data and electronic documents beyond the technological validity period and at least throughout the legal or contractual preservation period, while maintaining their integrity and the accuracy of their origin;

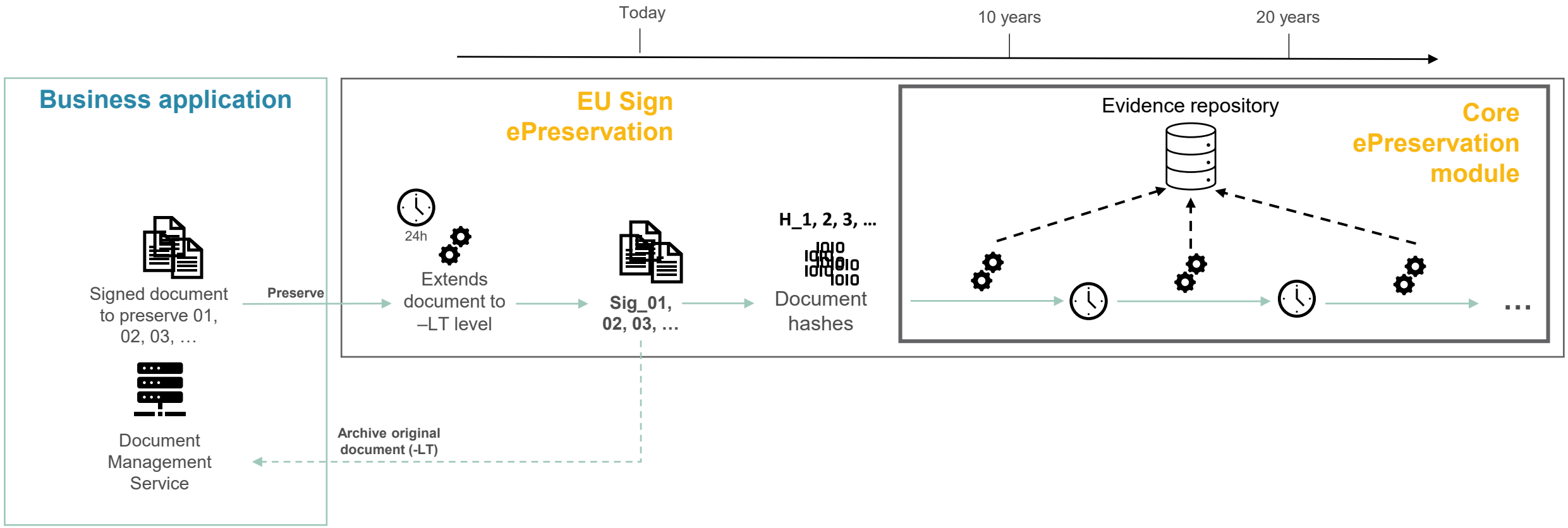
Preservation is an essential component of electronic archiving for any document containing QES.

EU Sign already offers the optimal solution!

Preservation with Evidence Records



Preservation with Evidence Records



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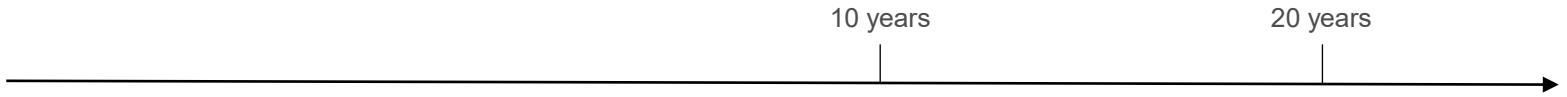
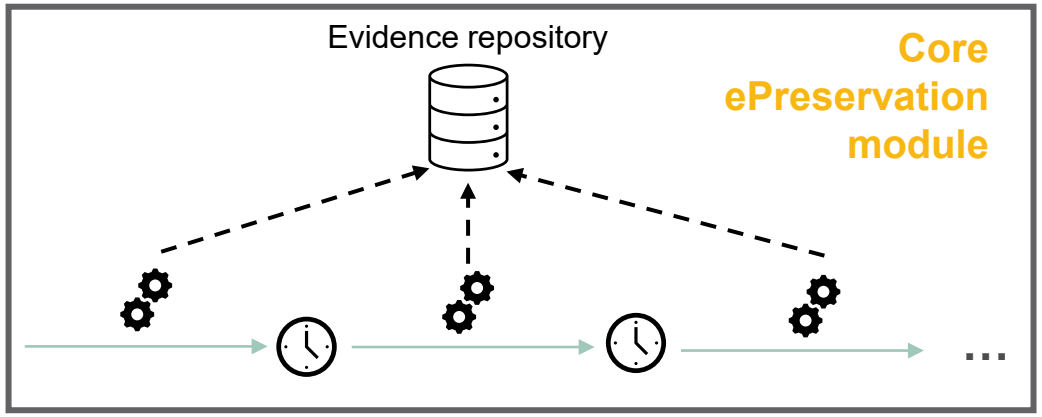


Business application

Document Management Service

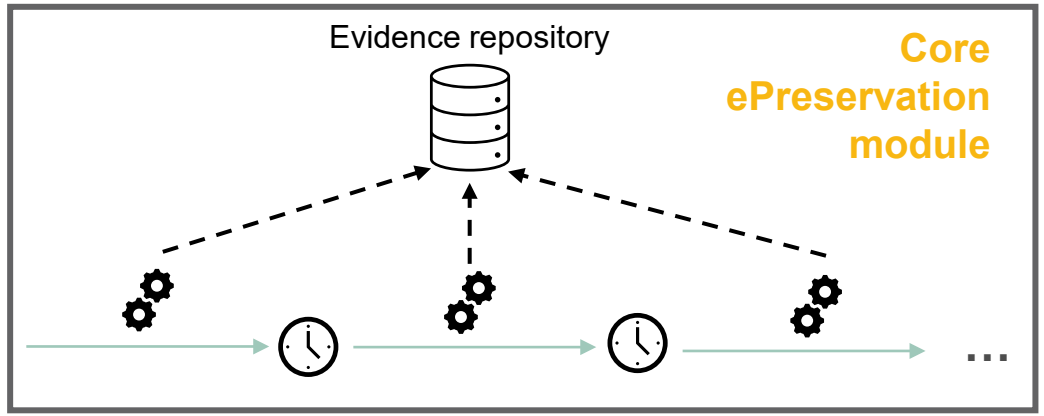
Sig_01, 02, 03, …

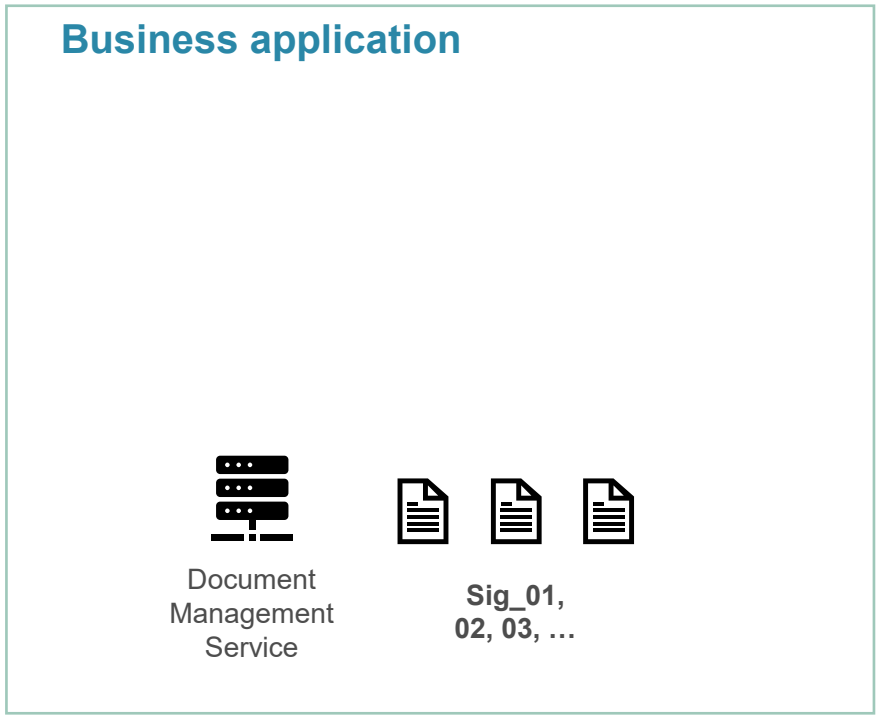


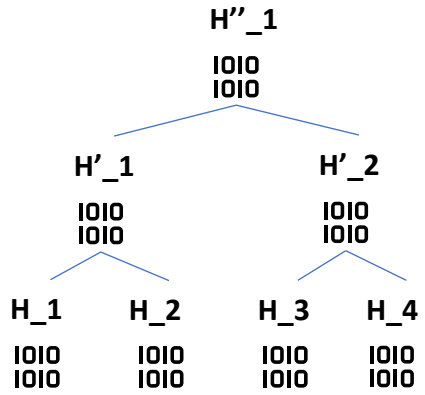
H_1, 2, 3, …

Document hashes

Preservation with Evidence Records

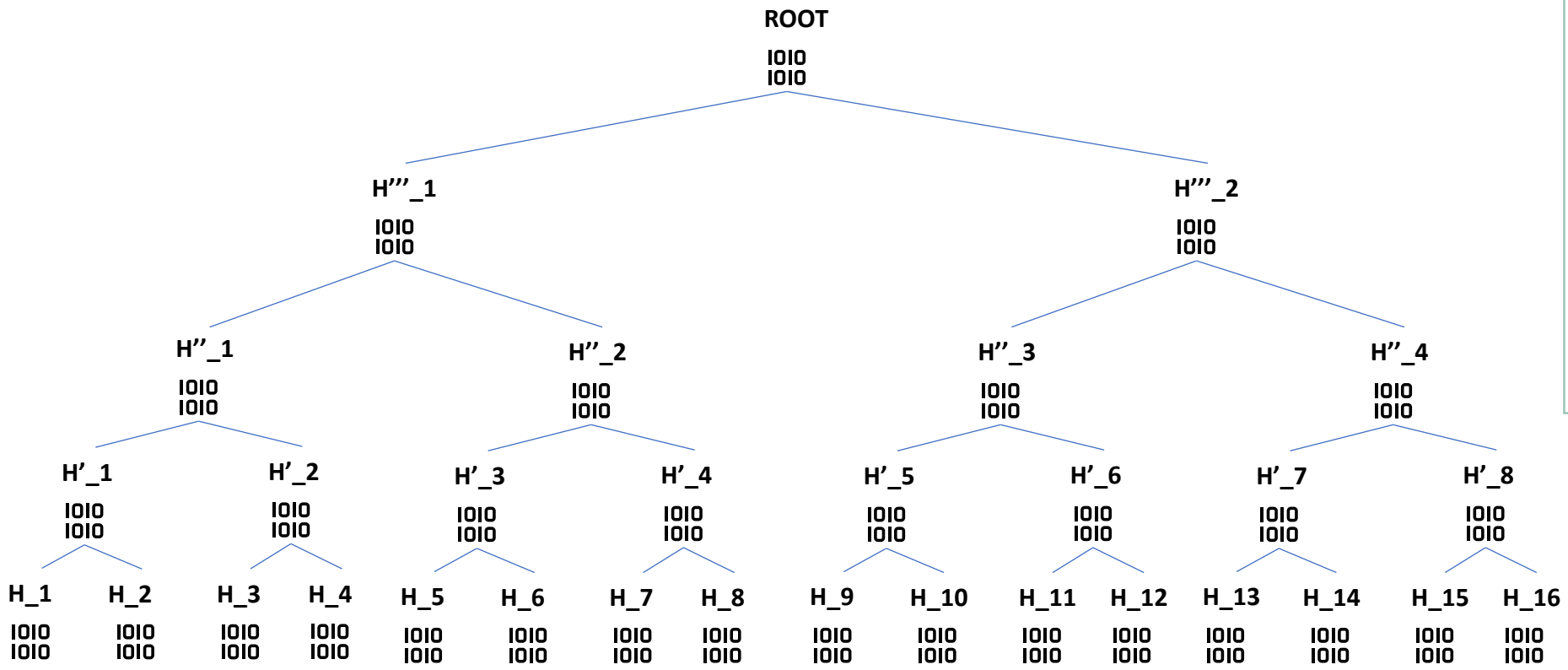






Document
hashes

Preservation with Evidence Records



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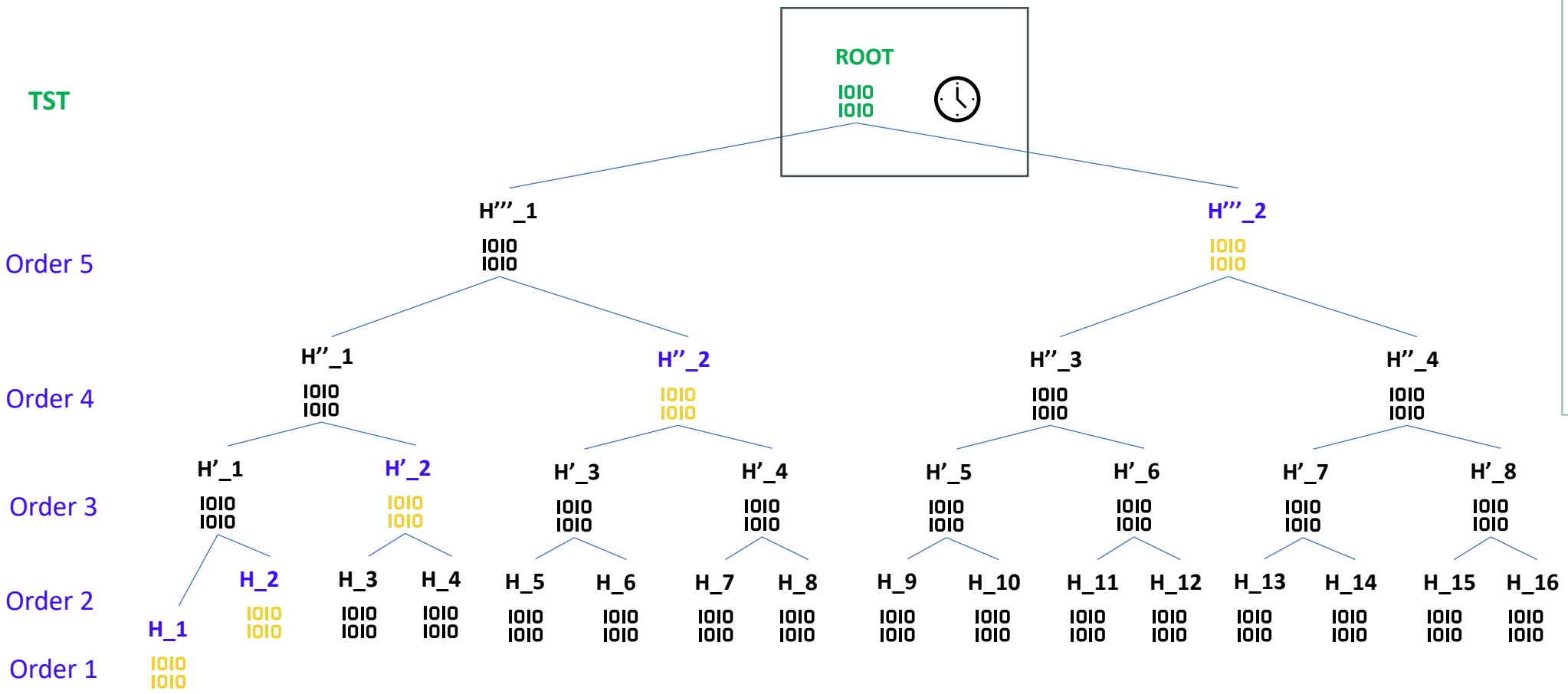
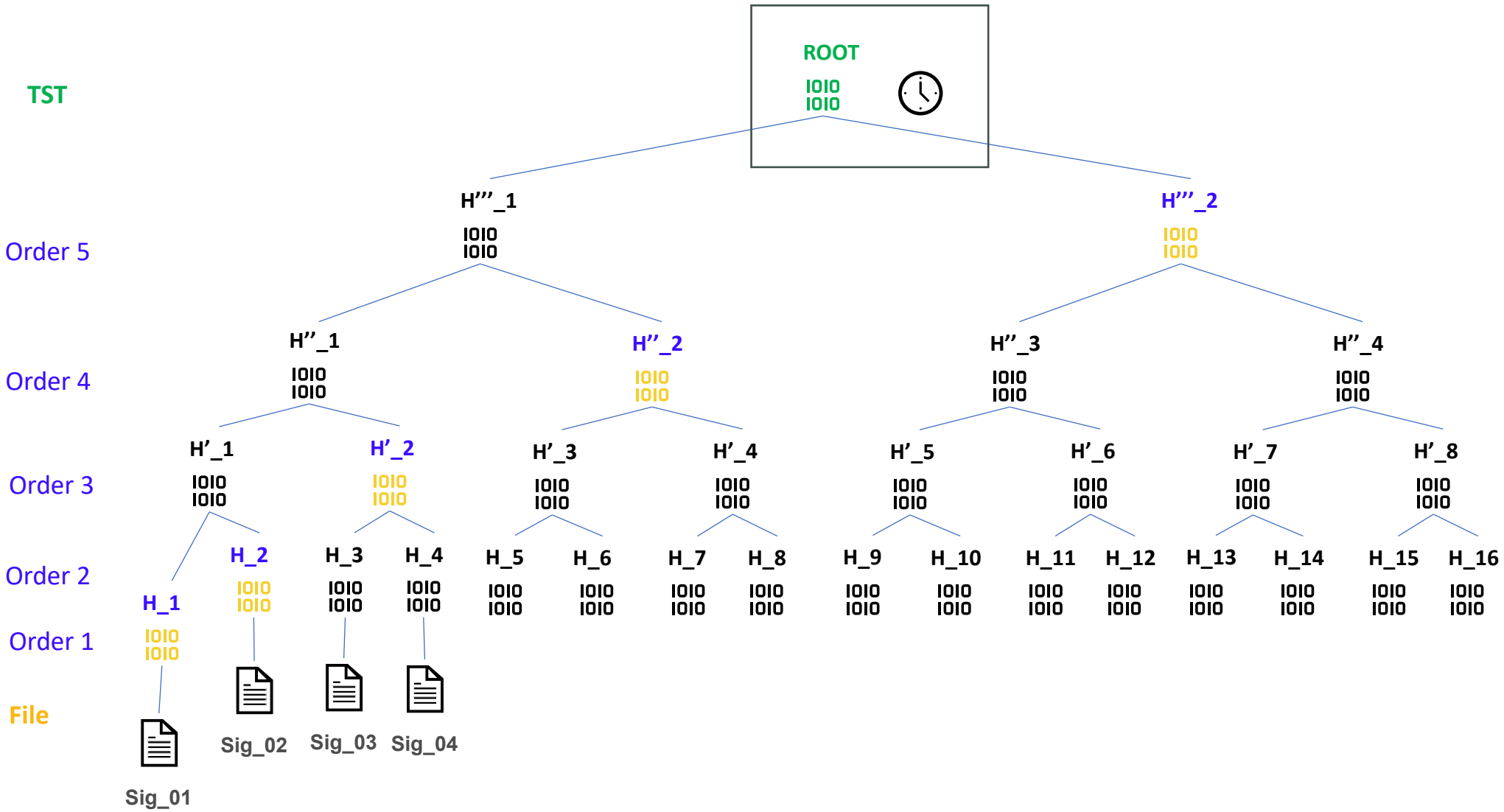


Business application

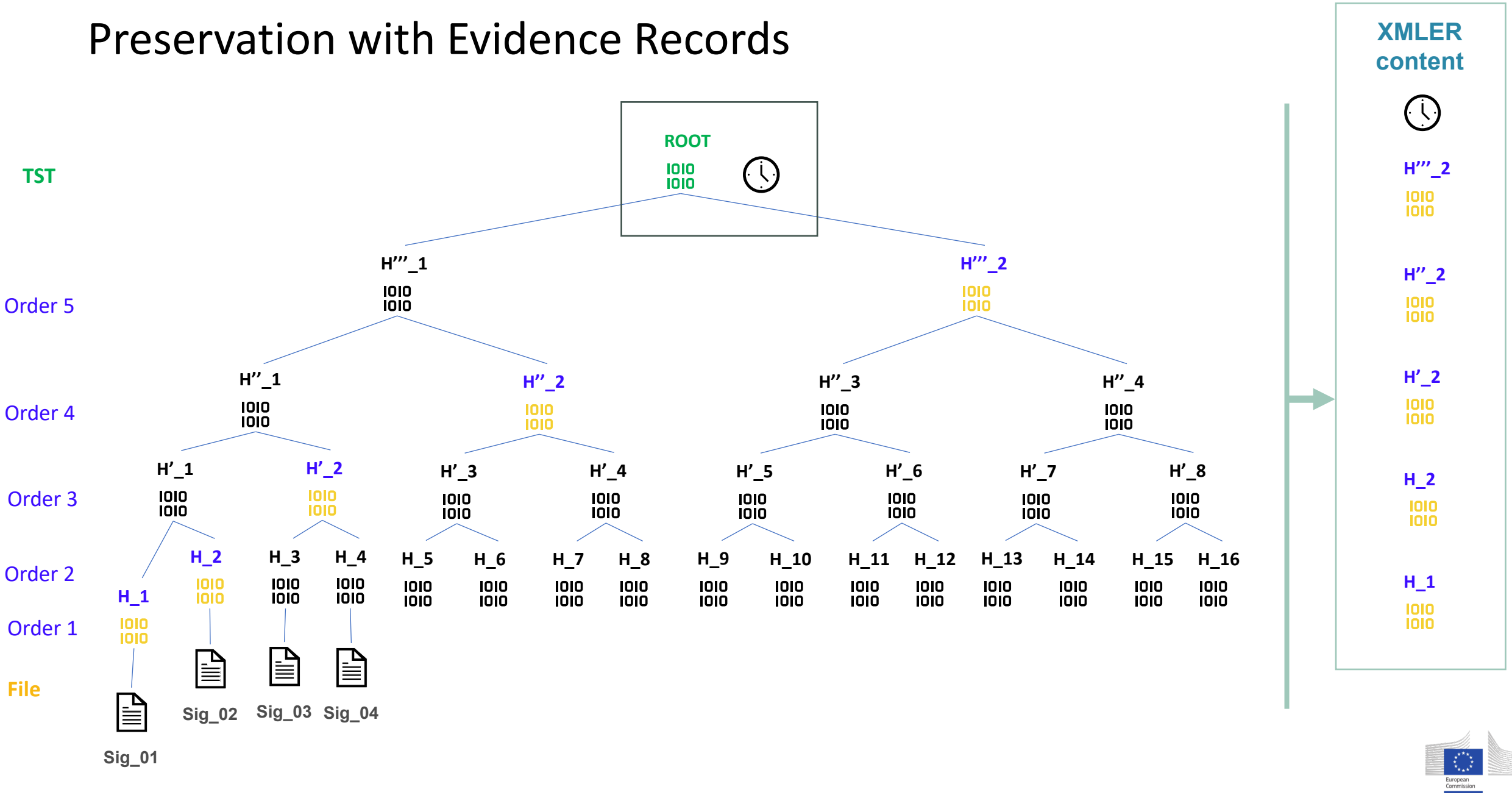
Document Management Service

Sig_01 Sig_02 Sig_03 Sig_04

Preservation with Evidence Records

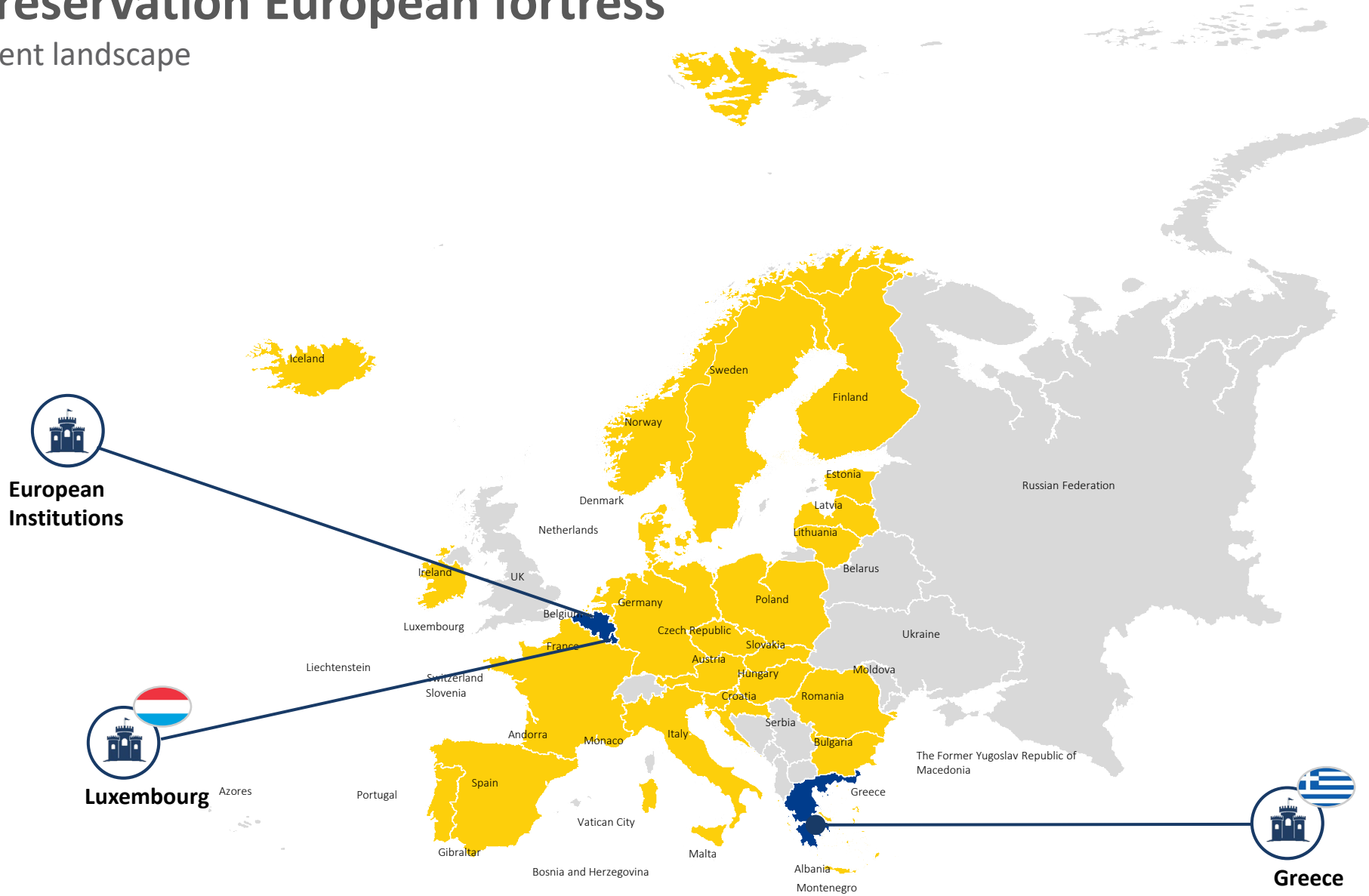


Preservation with Evidence Records



ePreservation European fortress

Current landscape



Do you want to become part of the ePreservation European fortress vision?

Scan the QR code to express your interest in attending an info session on ePreservation strategies and learn more about how you can get involved.

THANK YOU

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