

# 10<sup>th</sup> Trust Services and eID Forum

eIDAS Dashboard update

Preservation of Qualified Electronic Signatures

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## 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

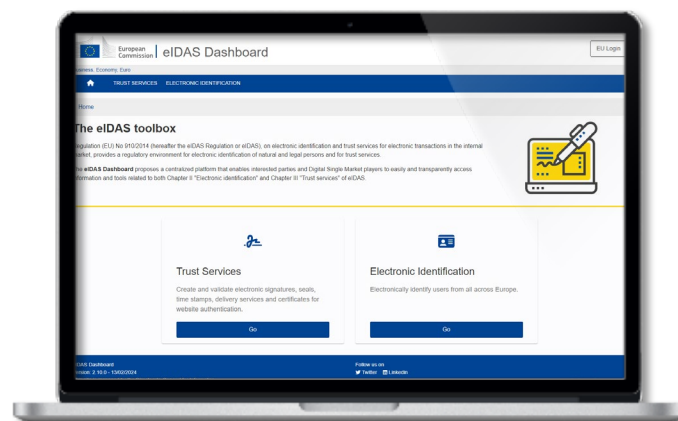
Electronically identify users across Europe with the help of **eID**. The Member States are obliged to notify, while the European Commission is responsible for publishing the notification scheme

2023



### eIDAS Dashboard

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

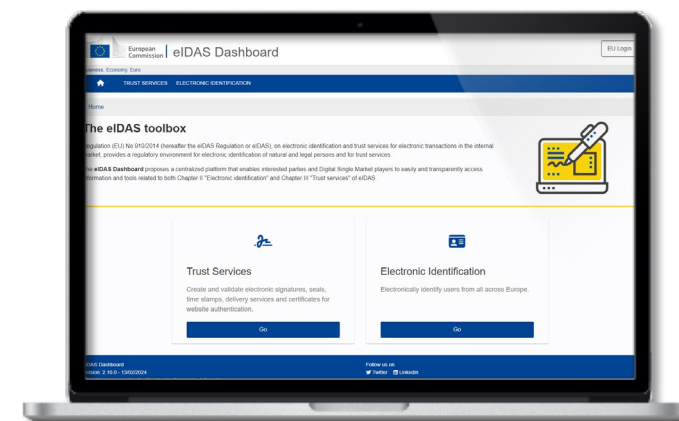


2024



### 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.

### Validation result

Website URL: <https://eidas.ec.europa.eu/>

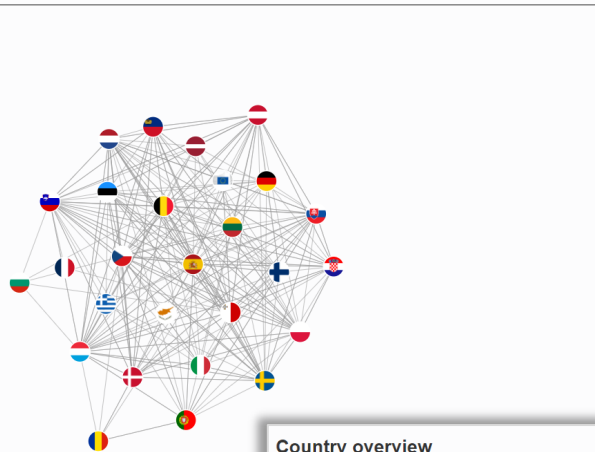
[↻ New validation](#)

#### Qualified certificate for website authentication (QWAC)

Qualification	At validation time	Qualified certificate for website authentication (QWAC)
	At issuance time	Qualified certificate for website authentication (QWAC)
Subject	Common name	eidas.ec.europa.eu
	Alternative names	eidas.ec.europa.eu, esignature.ec.europa.eu
	Organization name	COMMISSION DE L'UNION EUROPEENNE-COMMISSIE VAN DE EUROPESE UNIE
Issuer	Common name	HARICA Qualified Web Authentication Certificates RSA
	Trust Anchor	 → Greek Universities Network (GUnet)

# The eIDAS Network consists of interconnected eIDAS-Nodes

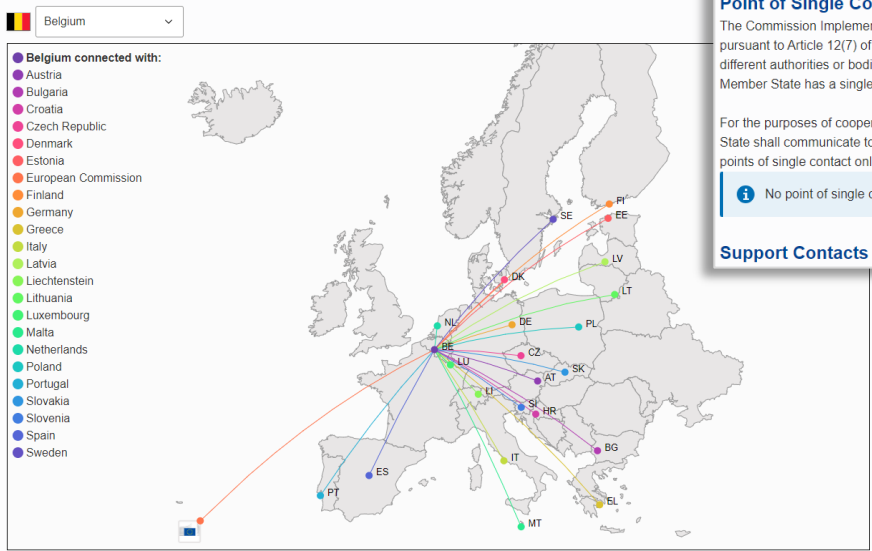
Global overview



Interactive map

Display of connections per country

Country overview



Operational eID connections

The supported electronic identification means **from Belgium** can be used to be identified in the supported services **of the following countries**:

Austria	Bulgaria	Croatia	Czech Republic
Denmark	Estonia	European Commission	Finland
Greece	Liechtenstein	Luxembourg	Malta
Netherlands	Poland	Slovakia	Slovenia
Spain	Sweden		

The supported electronic identification means **from the following countries** can be used to be identified in the supported services **of Belgium**:

Austria	Croatia	Czech Republic	Denmark
Estonia	Germany	Italy	Latvia
Liechtenstein	Lithuania	Luxembourg	Malta
Netherlands	Poland	Portugal	Slovakia
Slovenia	Spain	Sweden	

Point of Single Contact

The Commission Implementing Decision (CID) EU 2015/296 establishes procedural arrangements for cooperation between Member States on electronic identification pursuant to Article 12(7) of the eIDAS Regulation. In particular, the recital (4) of that CID states: 'various elements of the electronic identification schemes are managed by different authorities or bodies in the Member States. In order to allow effective cooperation and simplify administrative procedures, it is appropriate to ensure that each Member State has a single point through which its relevant authorities and bodies can be reached'.

For the purposes of cooperation between the Member States, CID 2015/296 Article 3 requires each Member State to designate a point of single contact. Each Member State shall communicate to the other Member States and the Commission information on the point of single contact. The Commission shall then publish the list of the points of single contact online.

No point of single contact published.

Support Contacts

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

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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)

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## Preservation of Qualified Electronic Signatures




# We already live in a digital area today


**+145,000** signatures in  
2023 via EU Sign

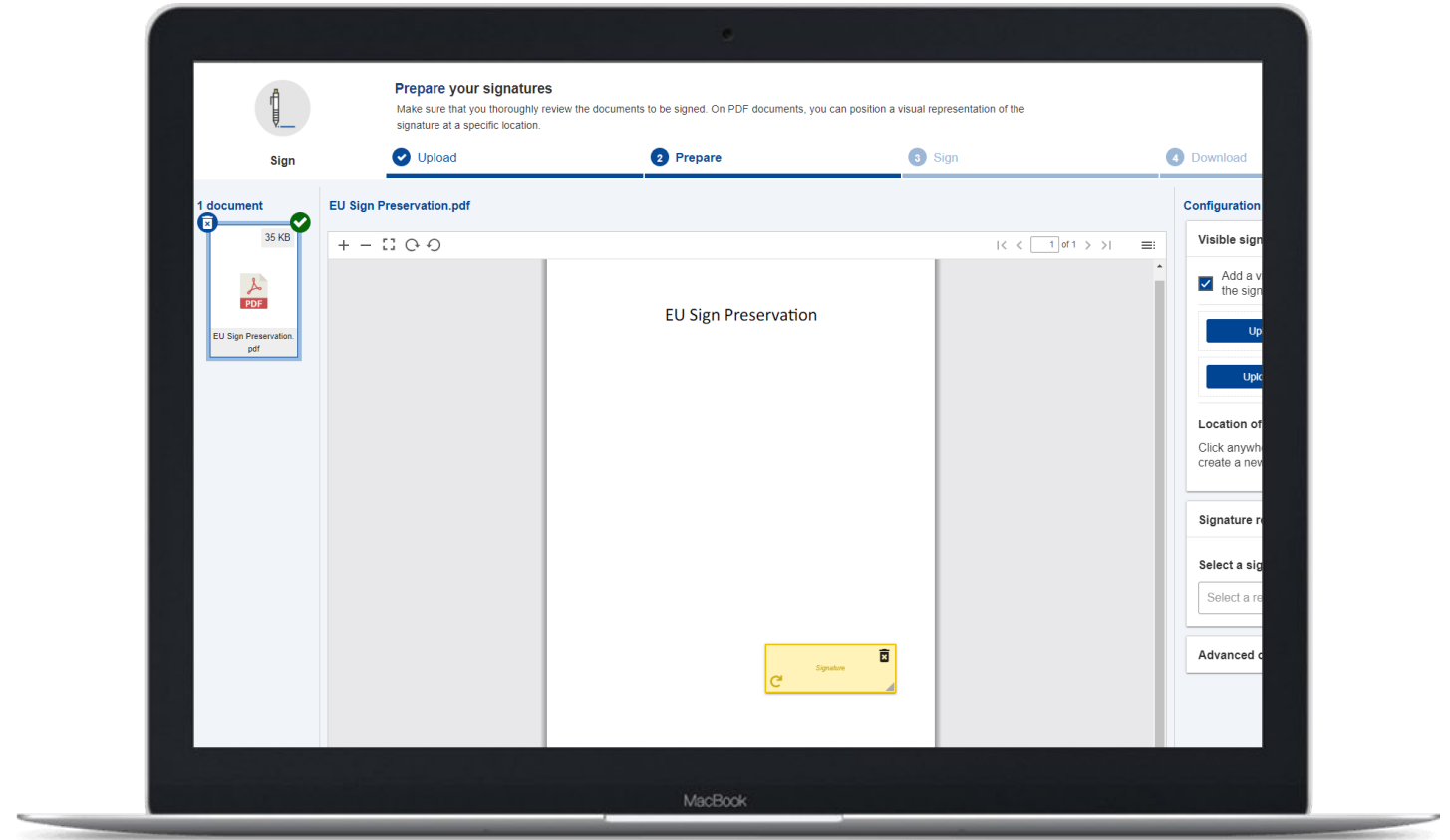
**+8M** seals in 2023 via EU  
Sign

 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*

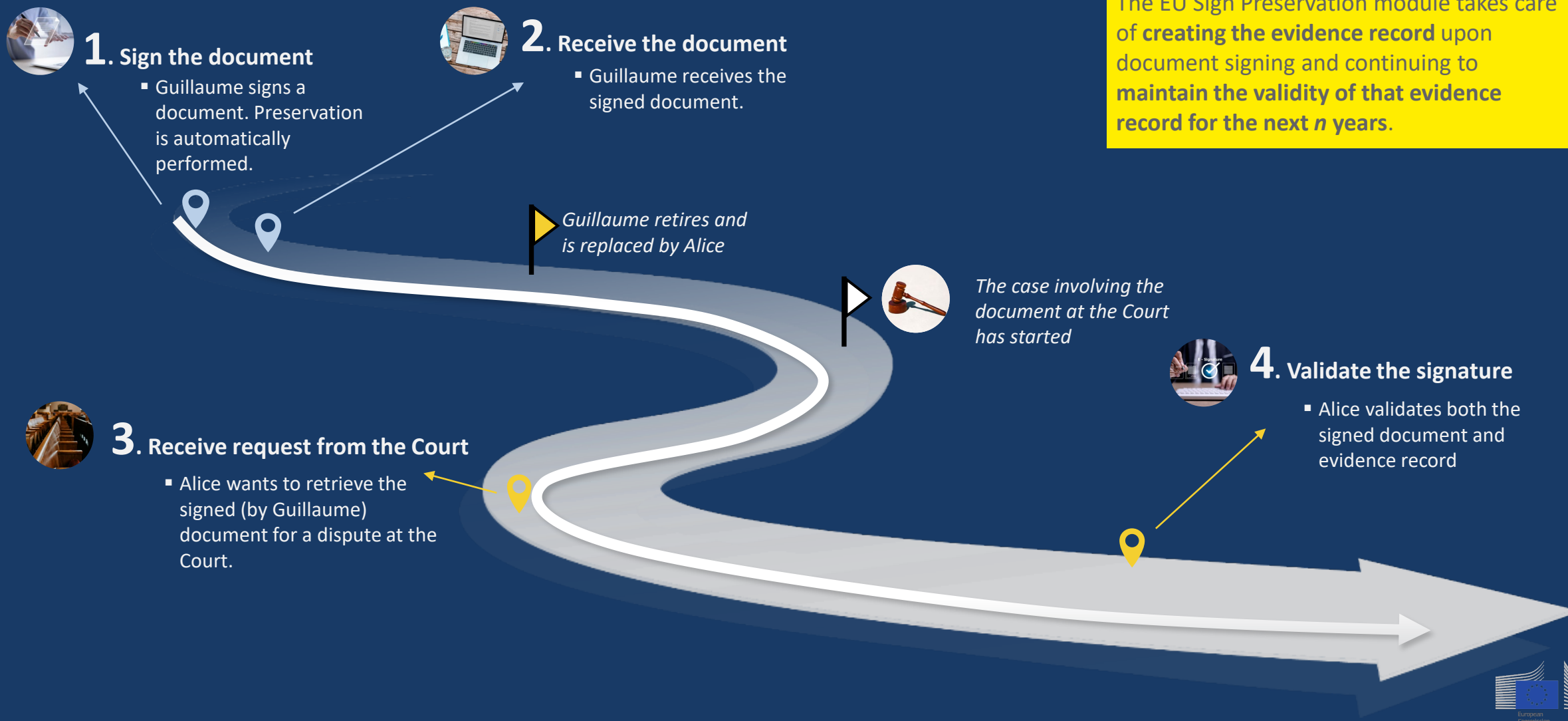
- *The signing certificate used is expired, resulting that we can no longer perform a correct validation of the signature.*
- *The cryptographic algorithm used at the signing time is considered weak.*
- *The company no longer exists and there's no representative to provide further evidence*

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

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





# 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

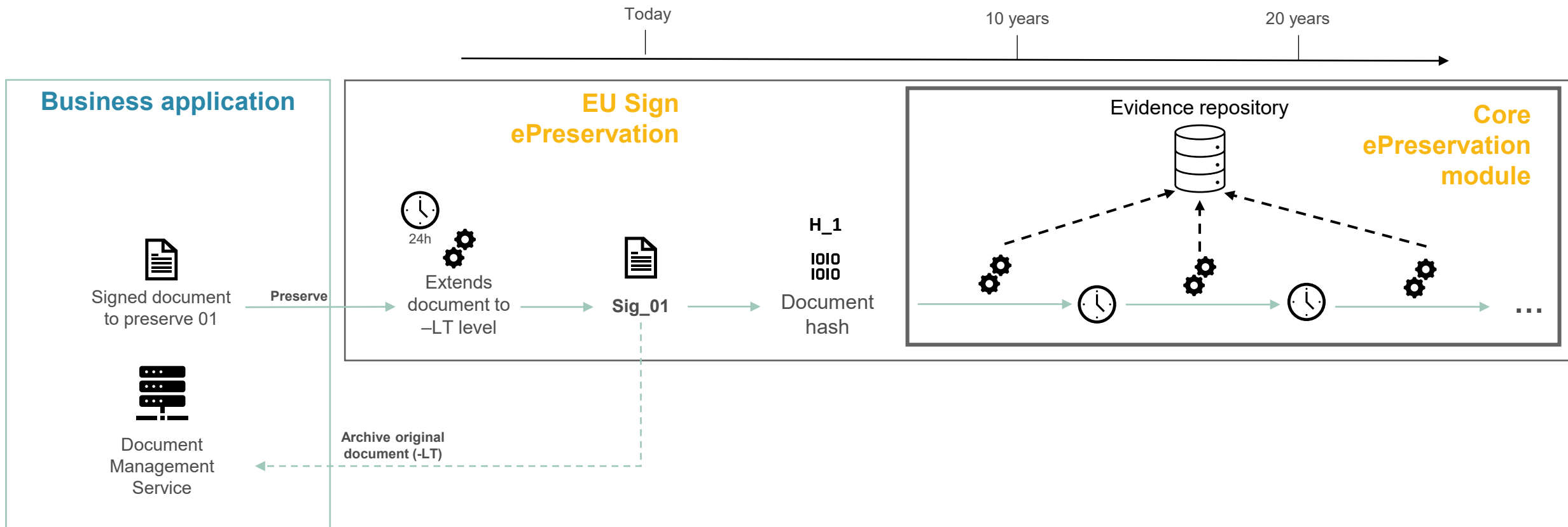
## Requirements for qualified electronic archiving services

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;

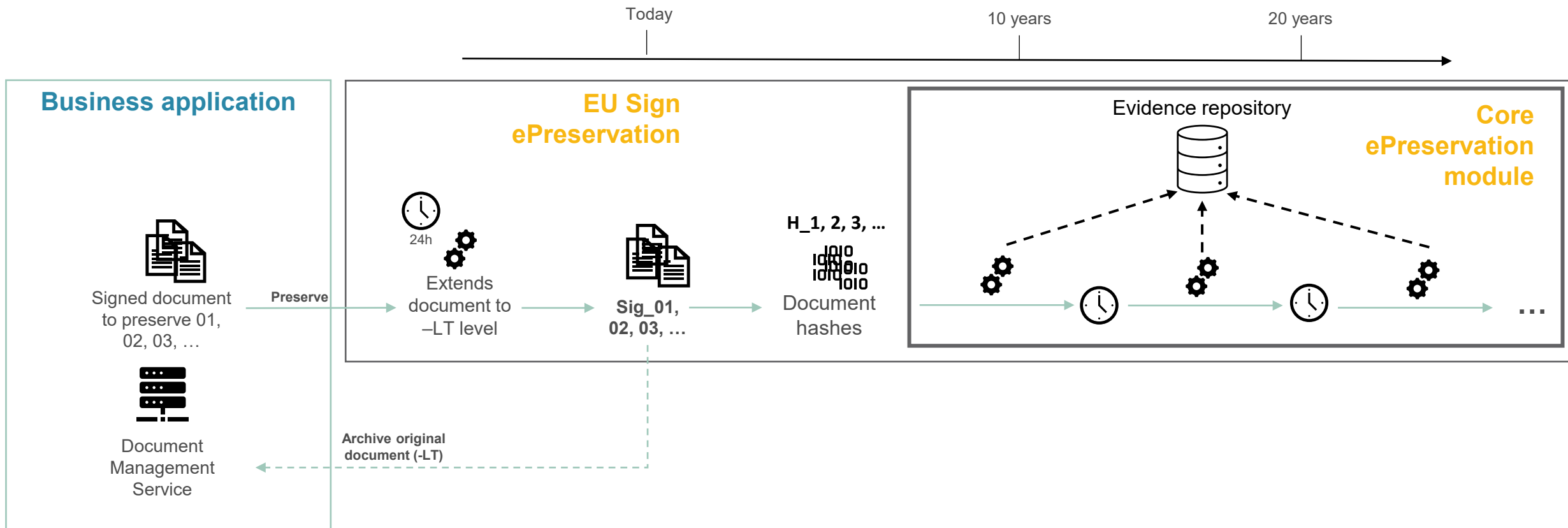
**Preservation** is an essential component of electronic archiving for any document containing QES.

**EU Sign** already offers the optimal solution!

# Preservation with Evidence Records





# Preservation with Evidence Records



# Preservation with Evidence Records

## Business application

  
Document  
Management  
Service

  
Sig\_01,  
02, 03, ...

10 years

20 years

Evidence repository

Core  
ePreservation  
module

H\_1, 2, 3, ...


1010 1010 1010  
1010 1010 1010


Document  
hashes

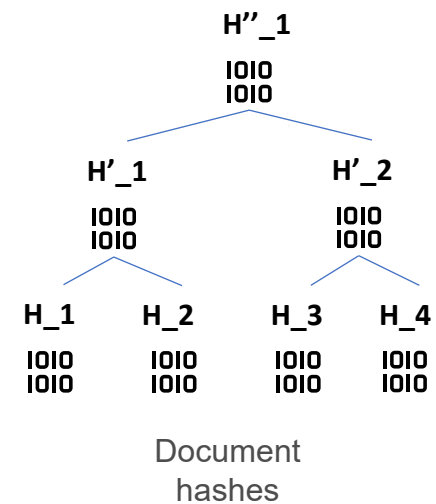
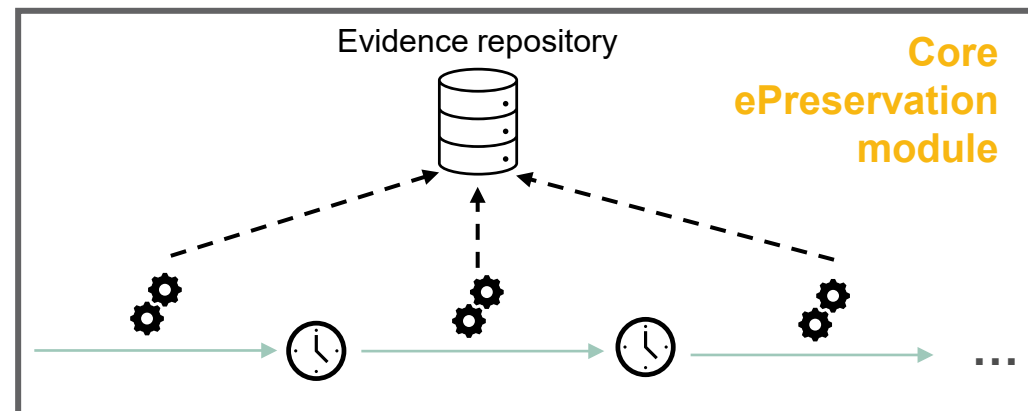


# Preservation with Evidence Records

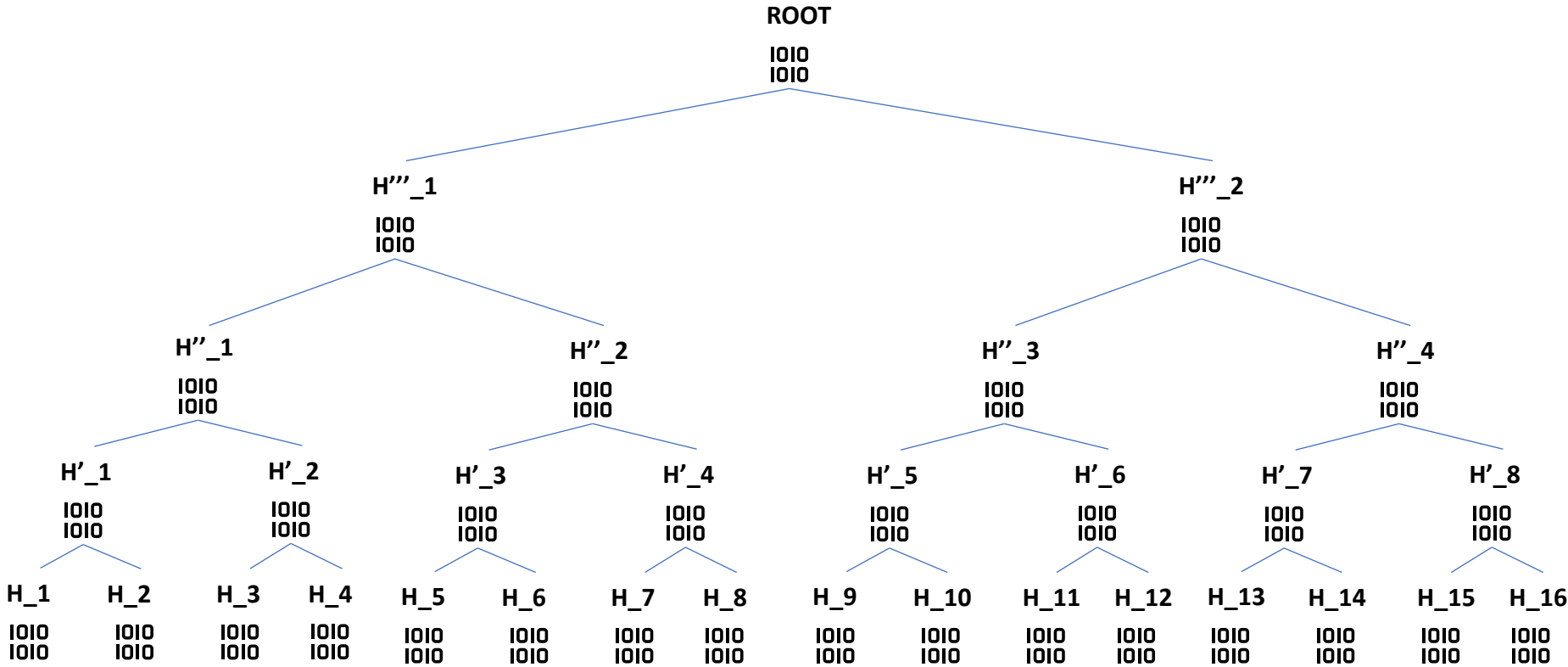
## Business application

  
Document  
Management  
Service

  
Sig\_01,  
02, 03, ...



# Preservation with Evidence Records



## Business application



Document  
Management  
Service



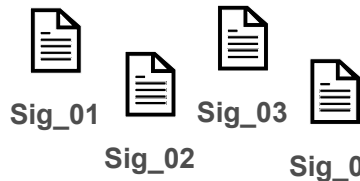
Sig\_01,  
02, 03, ...

# Preservation with Evidence Records

## Business application



Document  
Management  
Service



TST

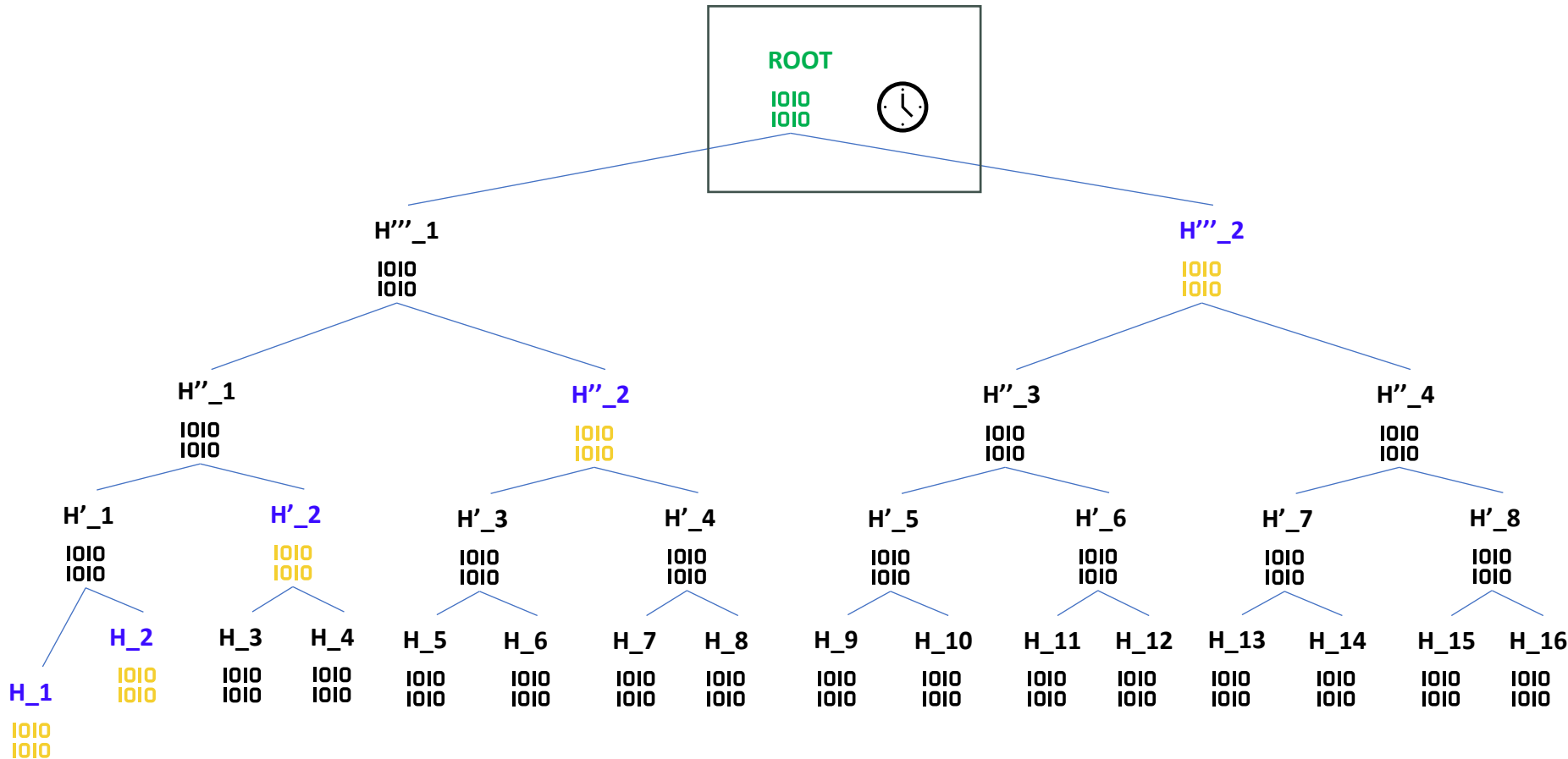
Order 5

Order 4

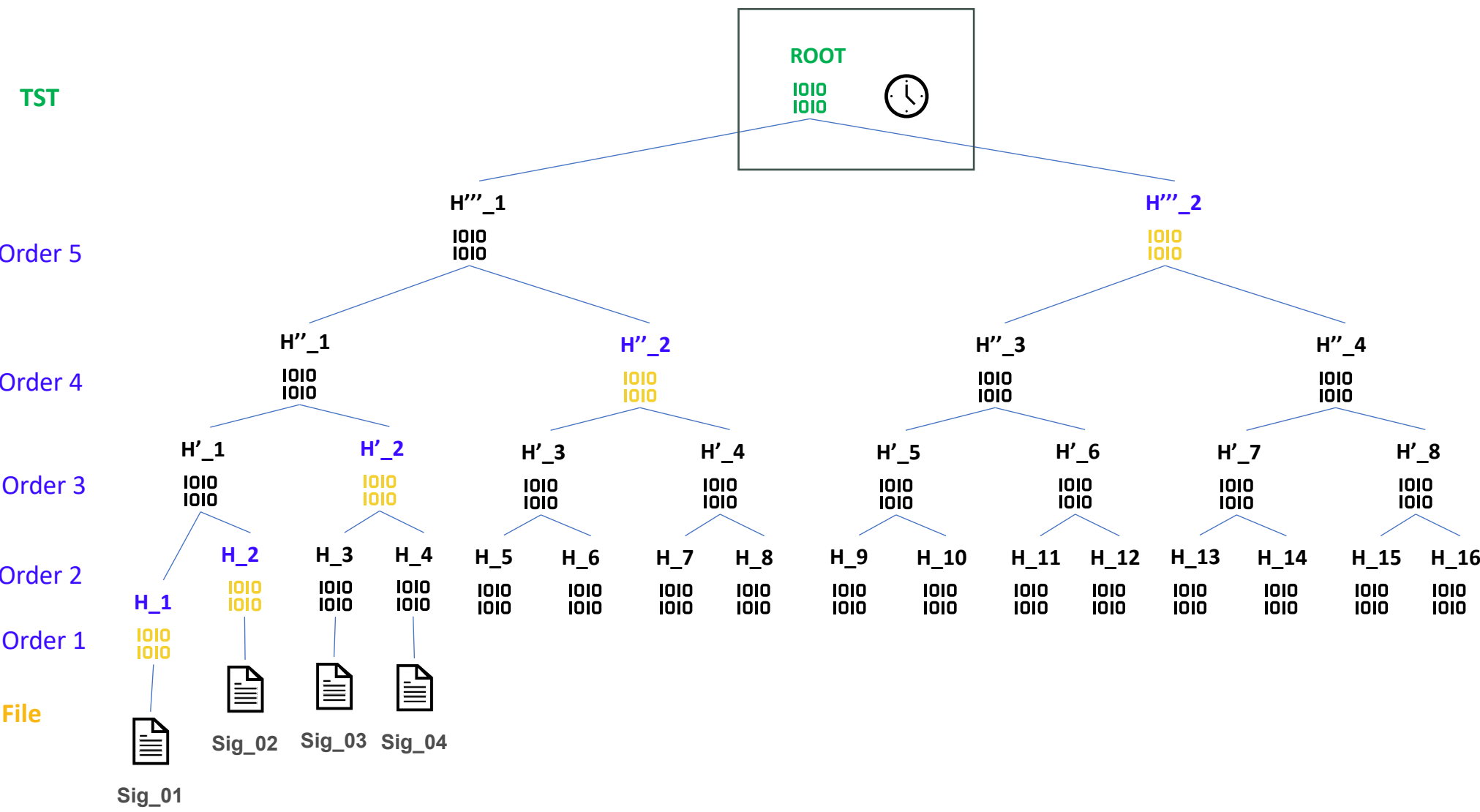
Order 3

Order 2

Order 1



# Preservation with Evidence Records





# Preservation with Evidence Records

TST

Order 5

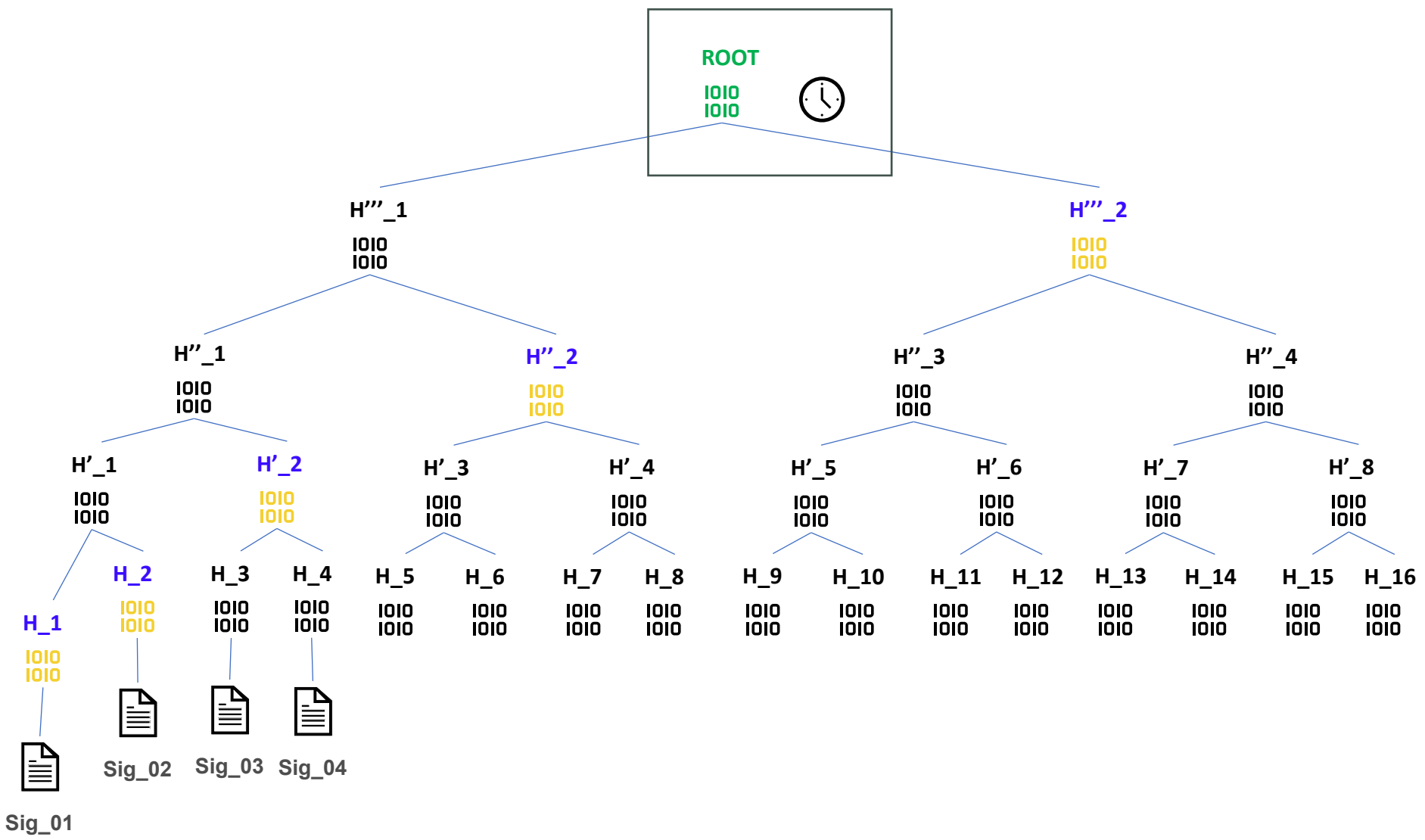
Order 4

Order 3

Order 2

Order 1

File



XMLER content



H'''\_2  
1010  
1010

H''\_2  
1010  
1010

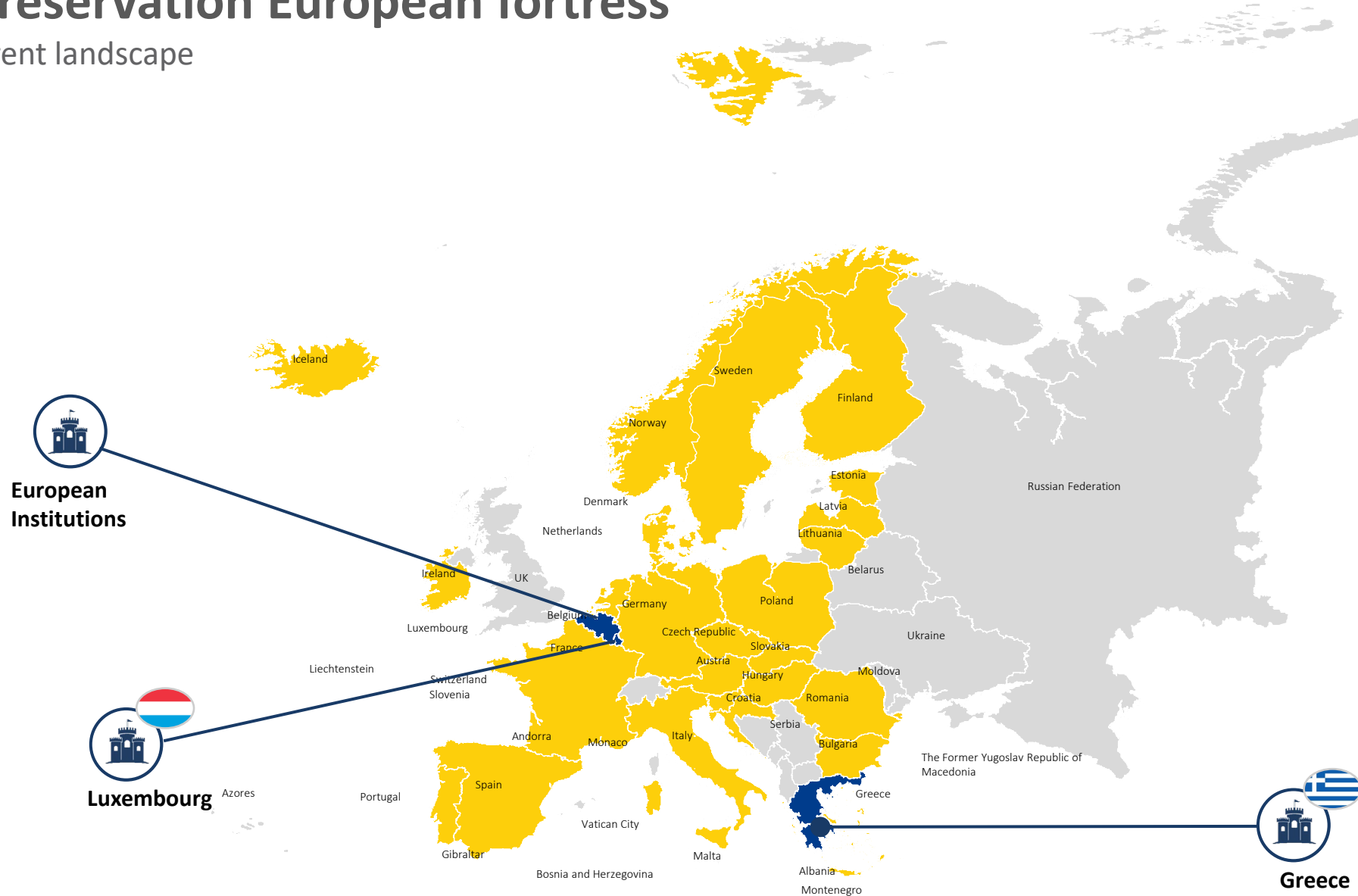
H'\_2  
1010  
1010

H\_2  
1010  
1010

H\_1  
1010  
1010

# 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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