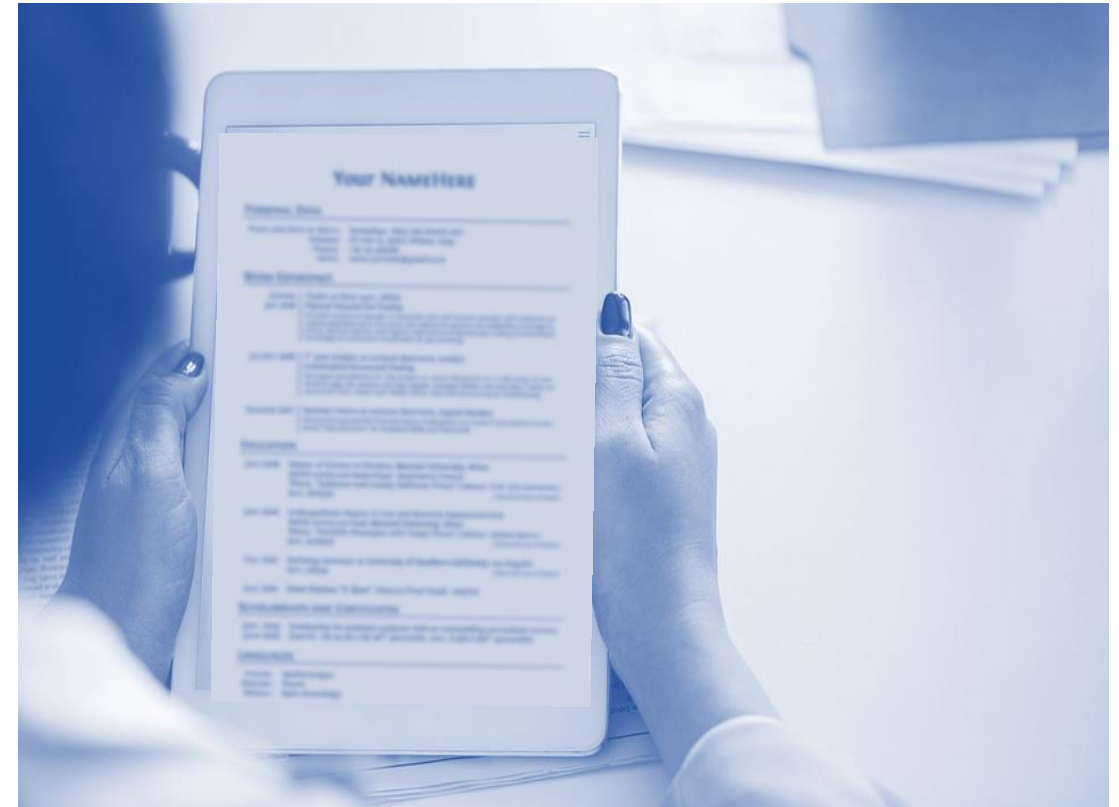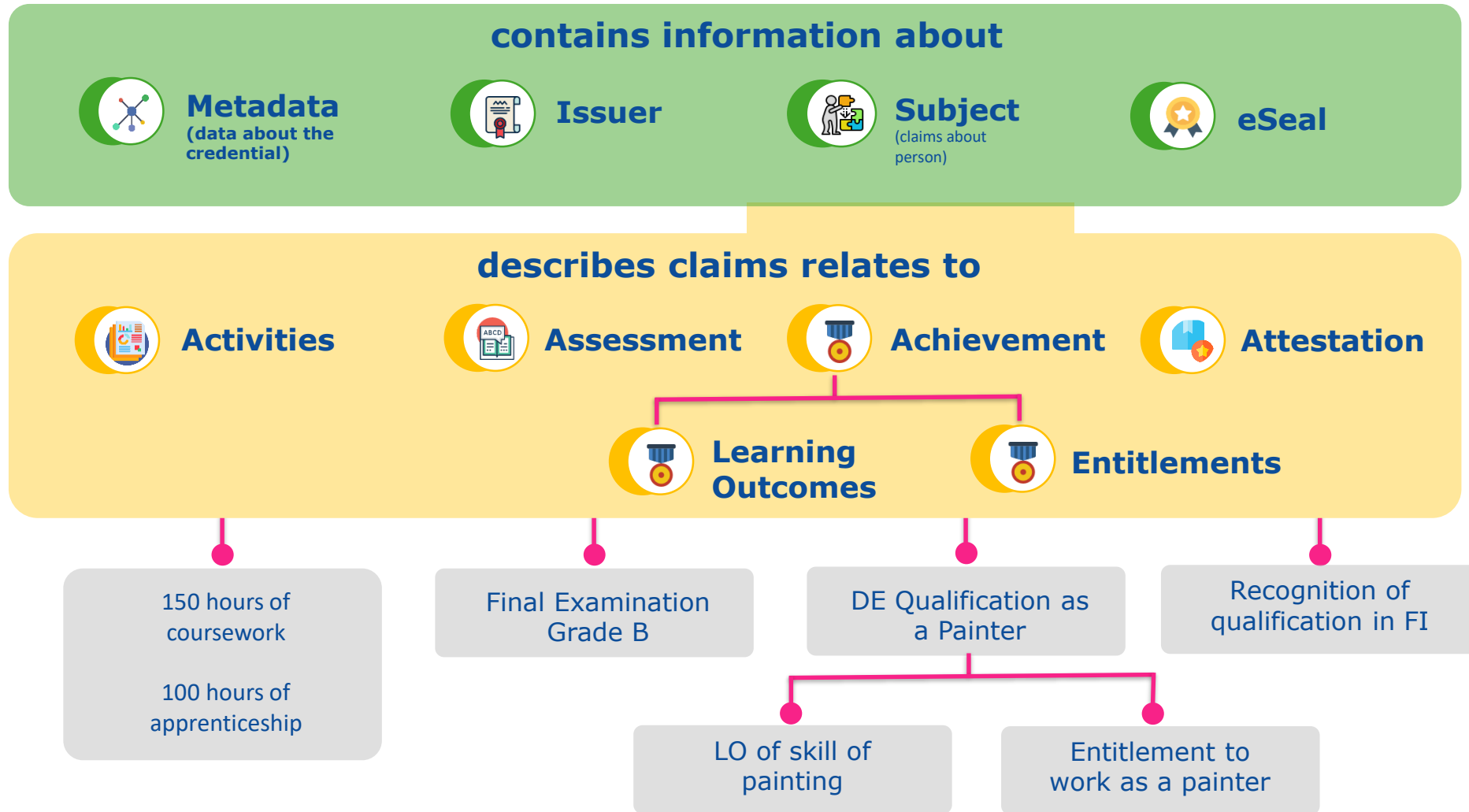# Digitally-Signed Credentials
State of Play

Framework for digitally-signed credentials
definition of a <u>digitally-signed</u> credential

- A credential, in its most essential form, is a **documented statement** containing claims made about a person.

- A Europass **learning credential** describes that the owner has certain skills or has achieved certain learning outcomes through formal, non-formal or informal learning context.

- A **digitally-signature (e-Seal)** guarantees the origin and integrity of the a document.

A Europass credential

contains information about

Metadata
(data about the credential)

Issuer

Subject
(claims about person)

eSeal

describes claims relates to

Activities

Assessment

Achievement

Attestation

Learning Outcomes

Entitlements

150 hours of coursework

100 hours of apprenticeship

Final Examination Grade B

DE Qualification as a Painter

Recognition of qualification in FI

LO of skill of painting

Entitlement to work as a painter

Framework for digitally-signed credentials
Stacking and Combining Credentials and Concepts

Issuer: University of Nantes
Claim: **Achievement** of Bachelors Degree in Nursing

Issuer: University of Nantes
Claim: Achievement of 90 ECTS in Nursing

Issuer: University of Malta
Claim: Achievement of 30 ECTS in Nursing (Erasmus)

Issuer: Tampere Teaching Hospital
Claim: Activity of 600 hours of Nursing Practice

Scope

- Qualification Awards

- Europass Supplements

- Certificates of Attendance

- Certificates of Enrolment

- Letters of Recommendation

- Transcripts of Records

- Professional Licences

Any credential which arises from informal, non-formal or formal learning.
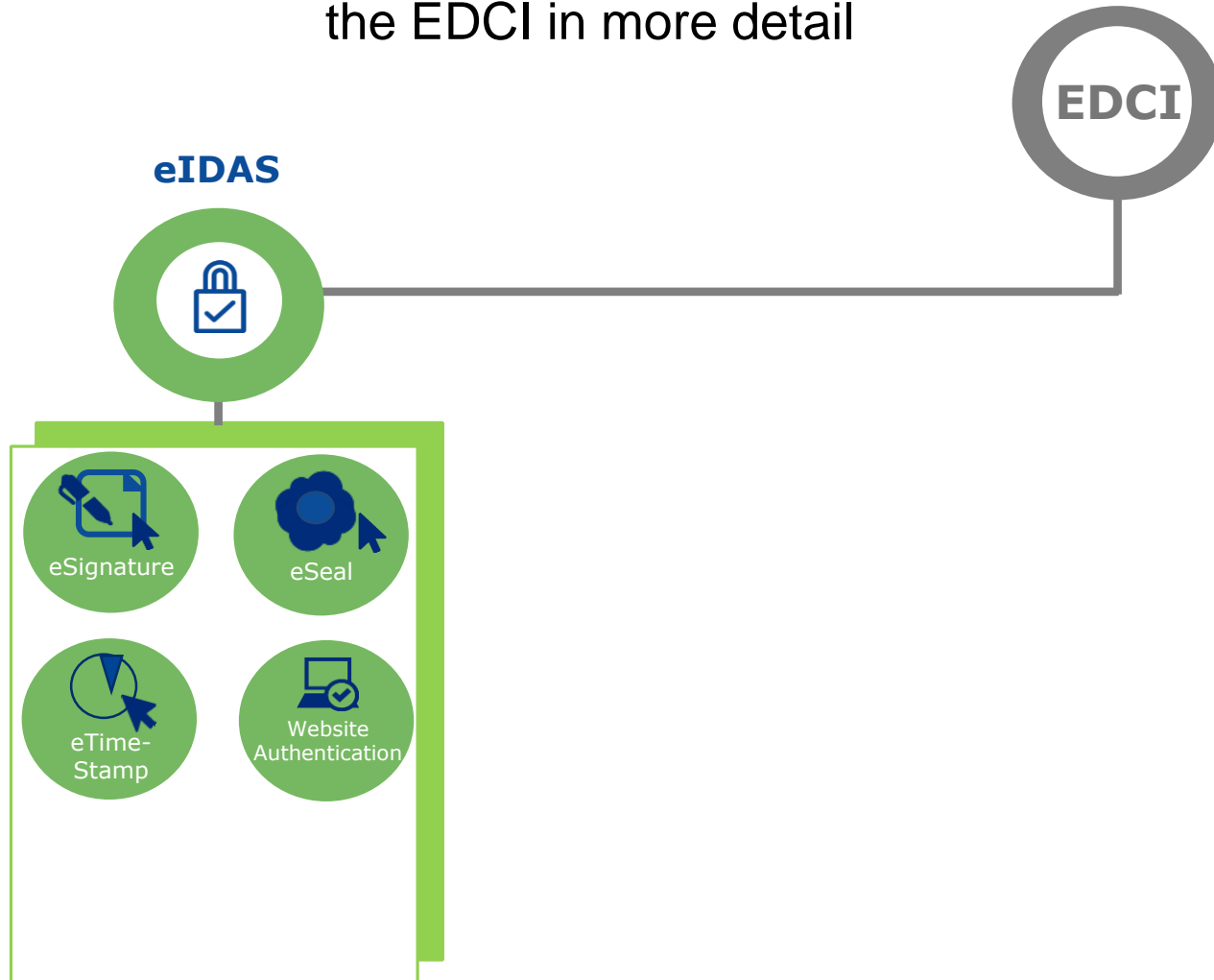
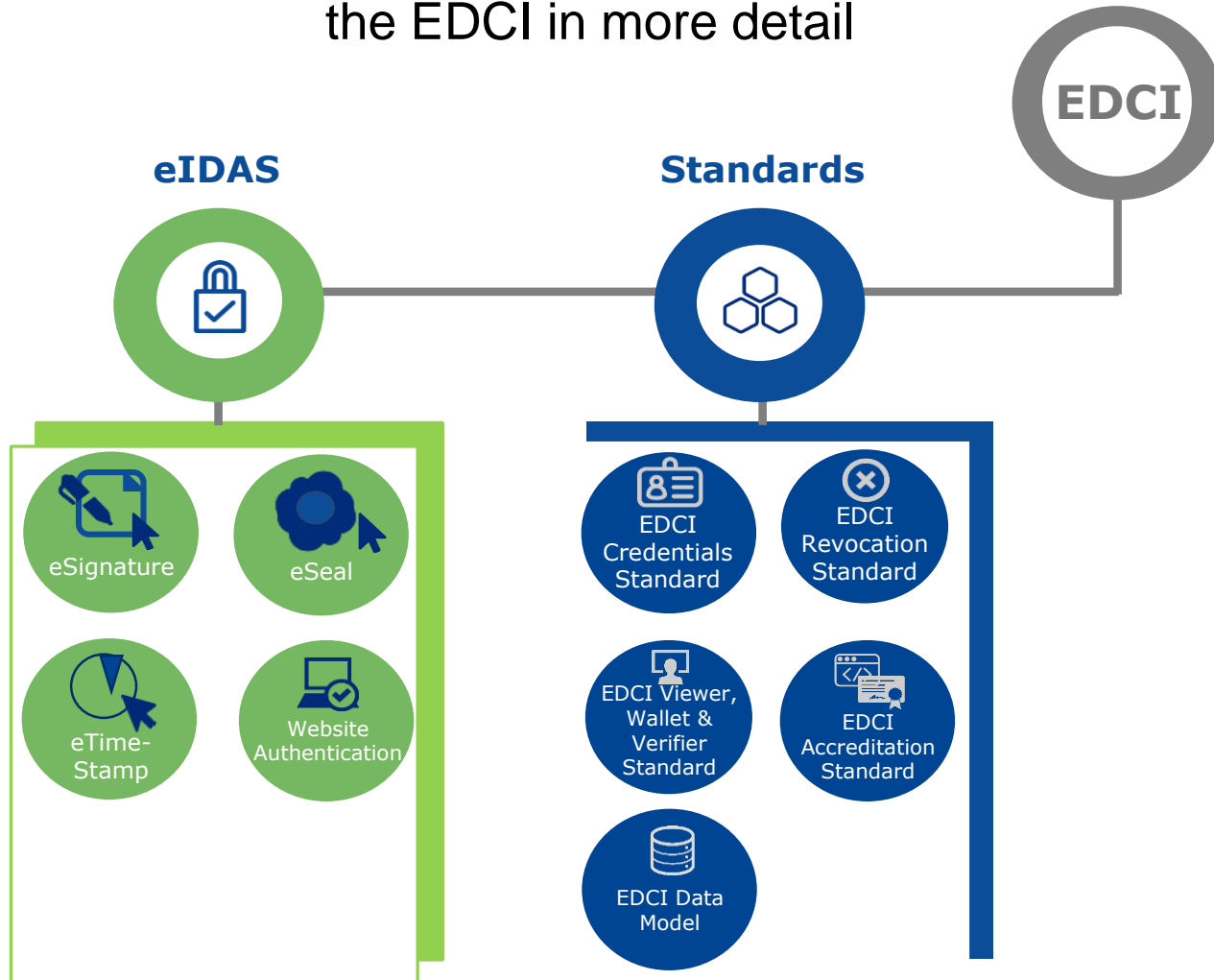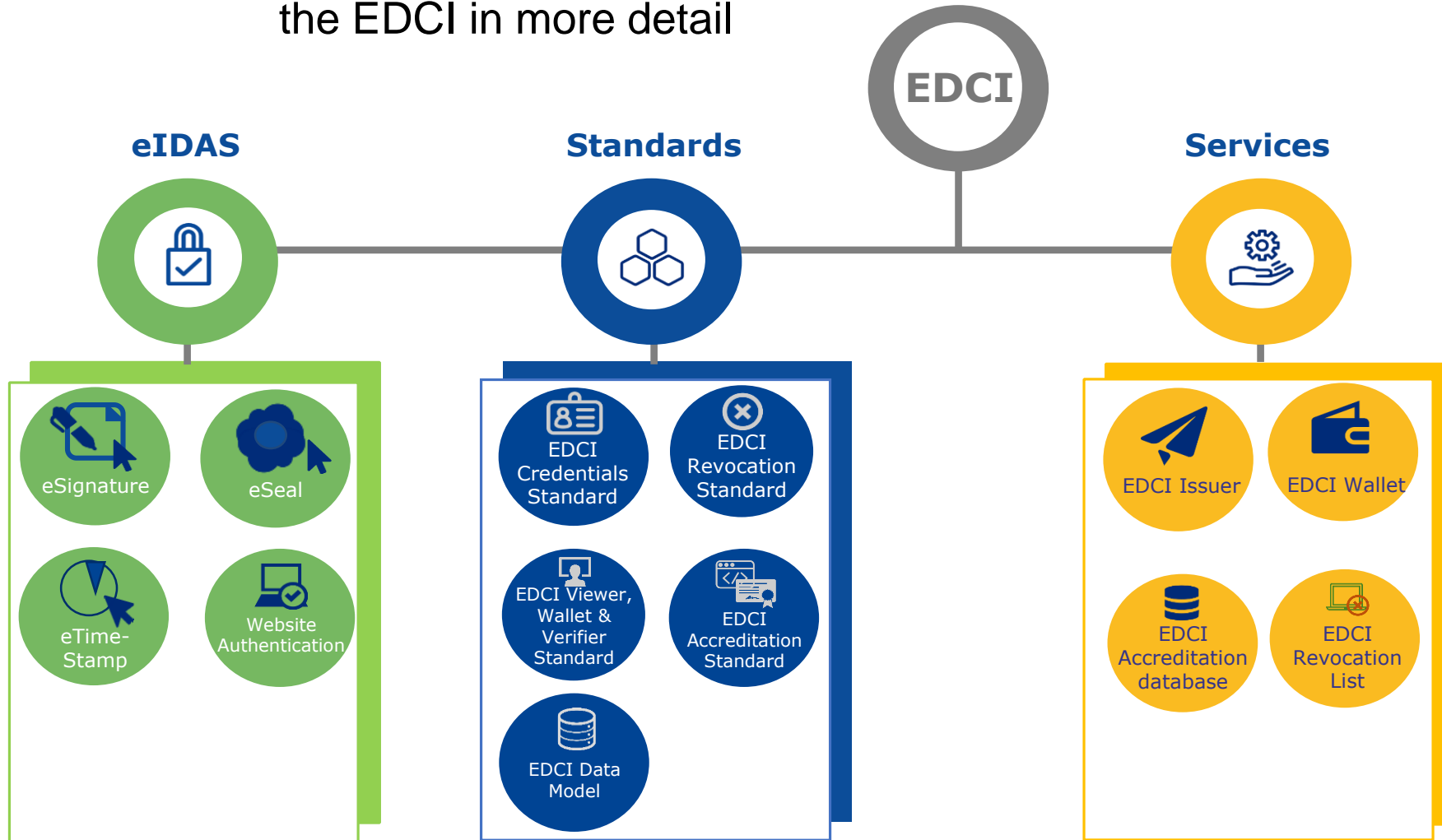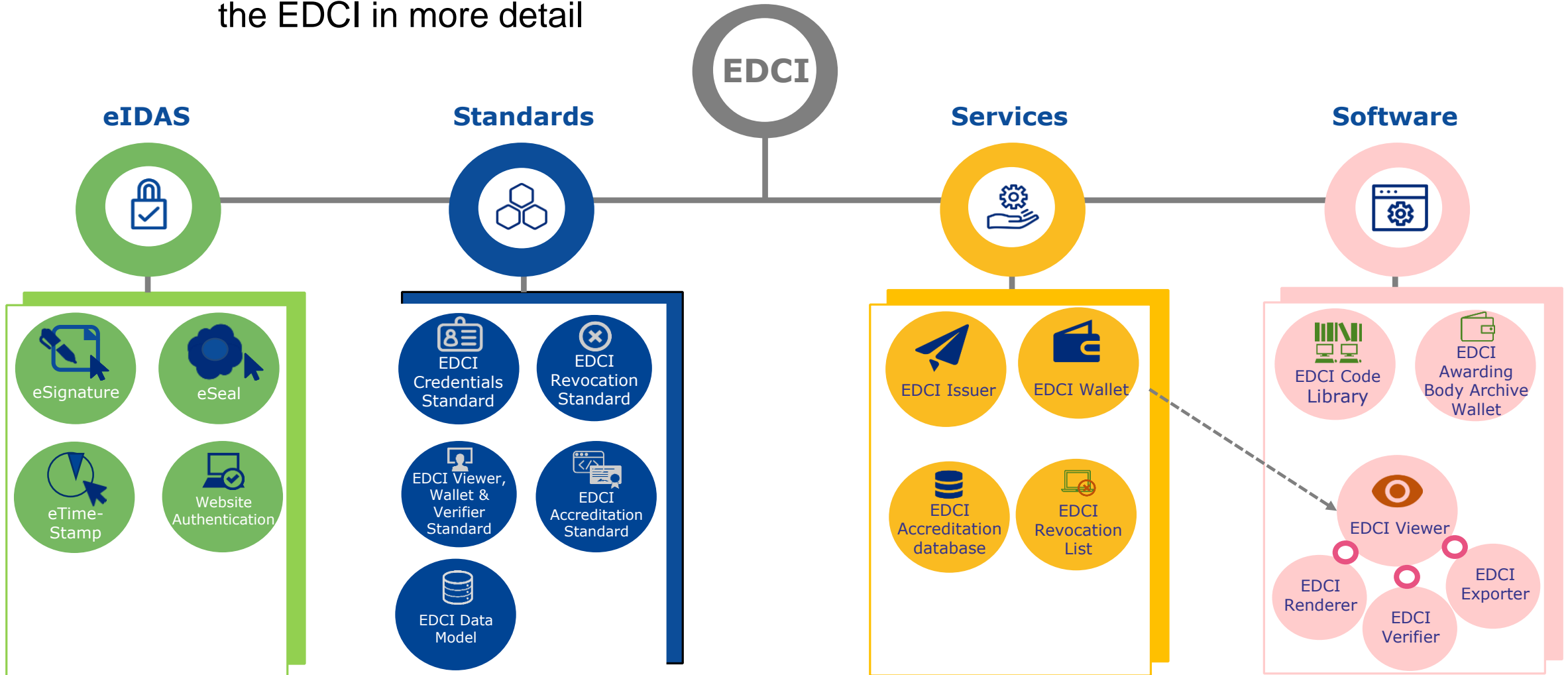# Framework for digitally-signed credentials
the EDCI in more detail

Framework for digitally-signed credentials
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Framework for digitally-signed credentials
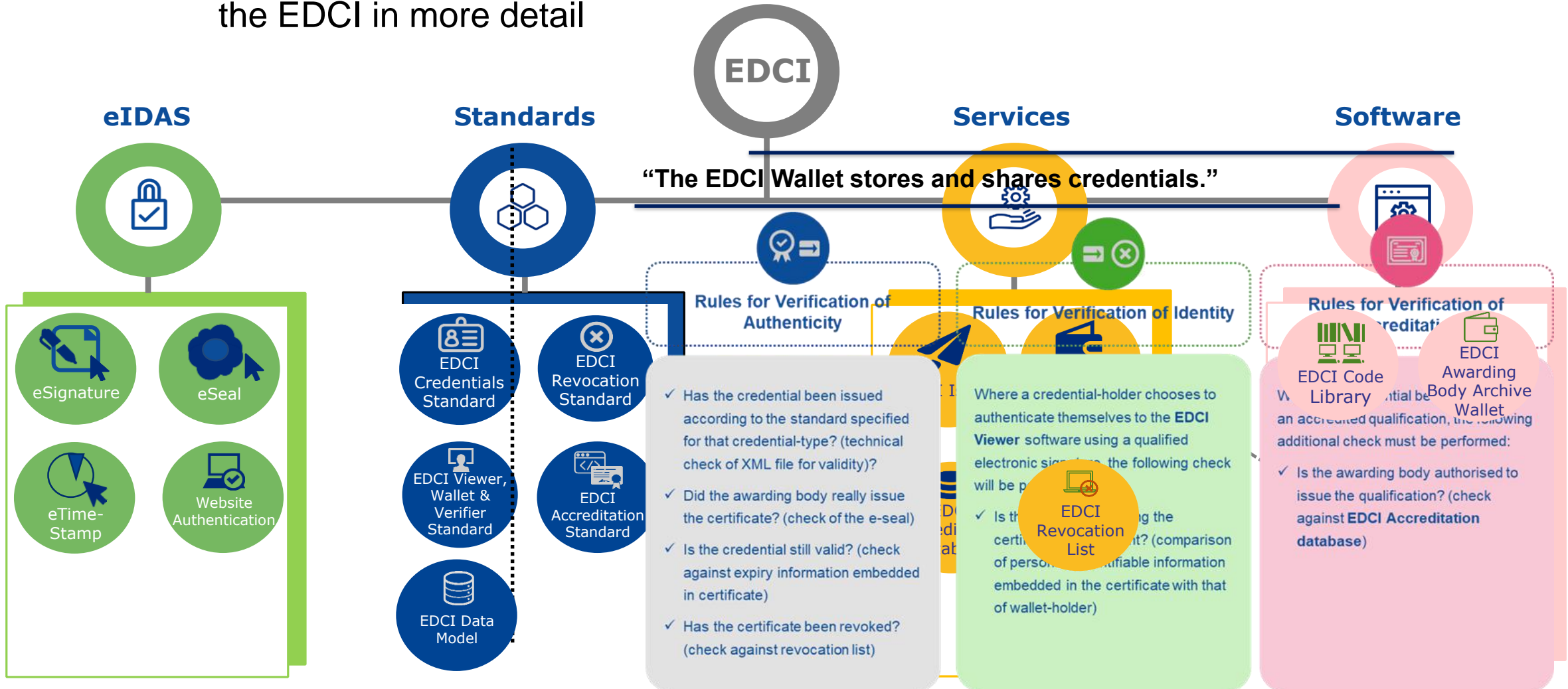the EDCI in more detail

Framework for digitally-signed credentials
the EDCI in more detail

EDCI

eIDAS
- eSignature
- eSeal
- eTime-Stamp
- Website Authentication

Standards
- EDCI Credentials Standard
- EDCI Revocation Standard
- EDCI Viewer, Wallet & Verifier Standard
- EDCI Accreditation Standard
- EDCI Data Model

Services
- EDCI Issuer
- EDCI Wallet
- EDCI Accreditation database
- EDCI Revocation List

everis
an NTT DATA Company

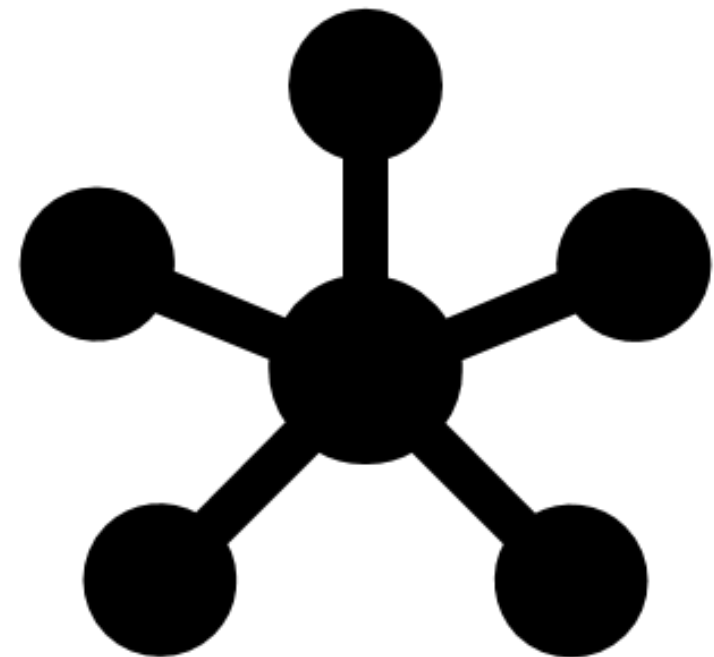Framework for digitally-signed credentials
the EDCI in more detail

Framework for digitally-signed credentials
the EDCI in more detail

Interoperability Aspects

Issuing Credentials

- A credential is simply a digitally-signed XML file

- Europass Provides

    - A standard describing the data fields and how to use them

    - A service to allow you to check the validity of your XML Files

    - A system for signing e-seals

    - Code samples

- Any system which stores student data can be coded to 'export' its data as Europass XML, and be fully compatible across the Europass ecosystem

Questions