EMREX tech meeting Januar 2021

Agenda

- Introduction
- ELMO
  - Additional types of Learning opportunities
  - ELMO – EDCI connection
  - Support for results of recognition
  - Support for licences/authorizations (like nursing)
  - Support for driver licences
- EMREG – proposal
- Resolutions

Proposal for ELMO 1.5.1 / 1.6

- Addition types of Attachments
  - Diploma
  - Micro Credential

Need for changes

- Background
  - Further development on NCP
    - New sources
      - Licences, results of recogntion, micro credentials
    - Digitalization of diplomas and Diploma Supplement
  - Relation to Europass / EDCI

Example 1 Vitnemålsportalen

- Support for data from NOKUT
  - Results of recognition
- Support for data from Helsedirektoratet
  - Authorisation and License for Health Personnel
- Support for data from Maskinregisteret
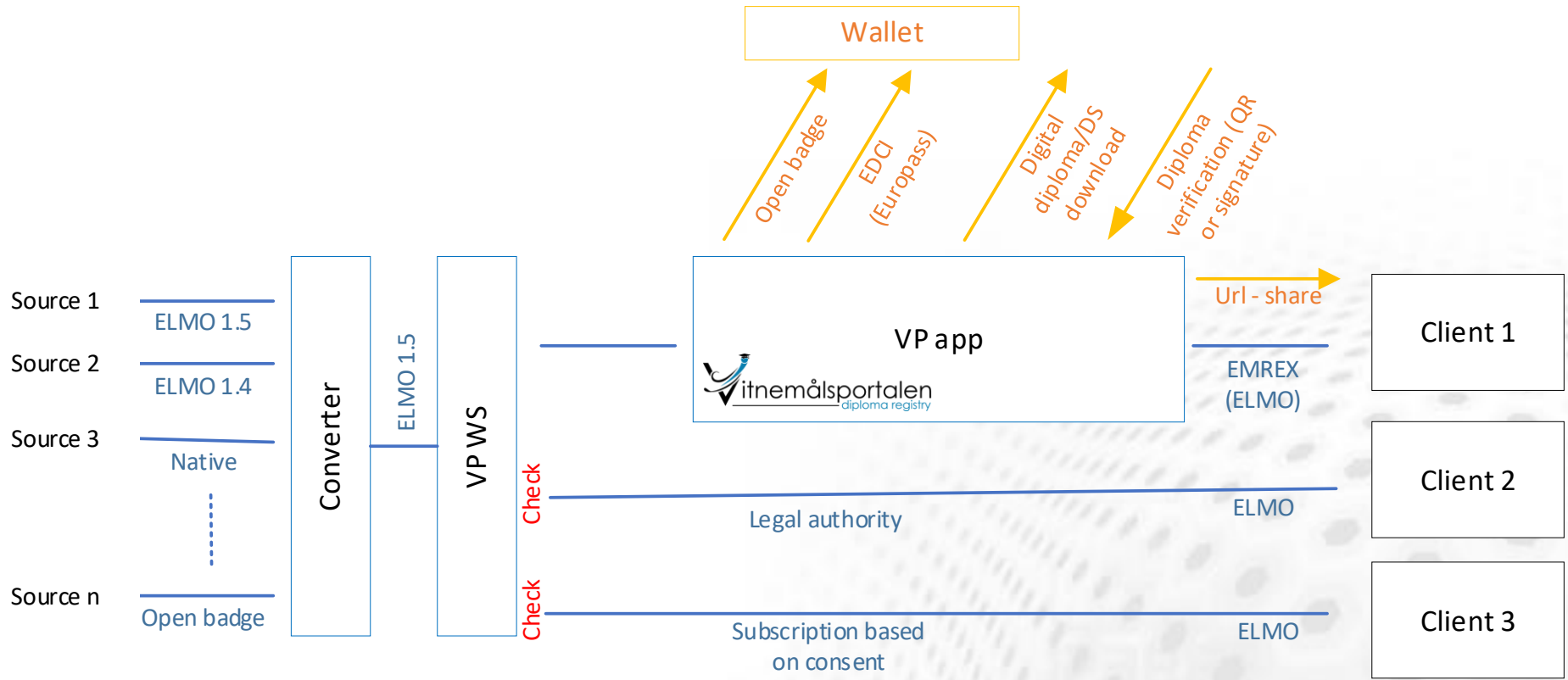 - Competences, driver licenses

Example 2 Digitalization of Diplomas

- Move away from paper diplomas
- Documents that should be kept safe and available for 40-60 years
  - Responsibility to secure these documents?
- The whole process from examination, via assessment to publishing, sharing, verification
- Verification of Accreditation is essential
  - For the whole lifespan of the document

Example 3 Dutch edubadges

- New infrastructure for Dutch education
- Many of the same requirements as for digital diplomas
- Information regarding Accreditation also important here

ELMO and EDCI

- ELMO
  - – Implementation of the European CEN-standards
- EDCI
  - – Europass Digital Credentials Infrastructure – Data Model

Data models

- ELMO
  - Learner
  - Report
    - Issuer
    - LearningOpportunitySpecification (type)
      - Specifies LearningOpportunityInstance
        - » Diploma Supplement
      - hasPart

Data models

- Europass Credential
  - Person
  - Achievements
    - LearningAchievements
      - wasDerivedFrom (assessment)
        » hasPart
      - wasInfluencedBy (activity)
        » hasPart
      - wasAwardedBy
      - hasPart
      - entitlesTo (entitlement)
  - Activities
  - Entitlements

```xml
<europassCredential xmlns="http://data.europa.eu/europass/model/credentials#
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    <type uri="http://data.europa.eu/europass/credentialType/generic"/>
    <issued>2015-10-31T12:00:00+02:00</issued>
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        spatialId="http://publications.europa.eu/resource/authority/country/
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        XXXXX" spatialId="http://publications.europa.eu/resource/authority/c
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        <placeOfBirth>
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                <text lang="nl" con
```

```xml
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    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="https://github.com/emrex-eu/elmo-schema
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        <identifier type="someOtherCustomIdentifierType">ABC000
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        </currentAddress>
    </learner>
```

Data models

- **EDCI**
  - Based on W3C Verifiable Credentials Data Model
  - aligned with ELMO
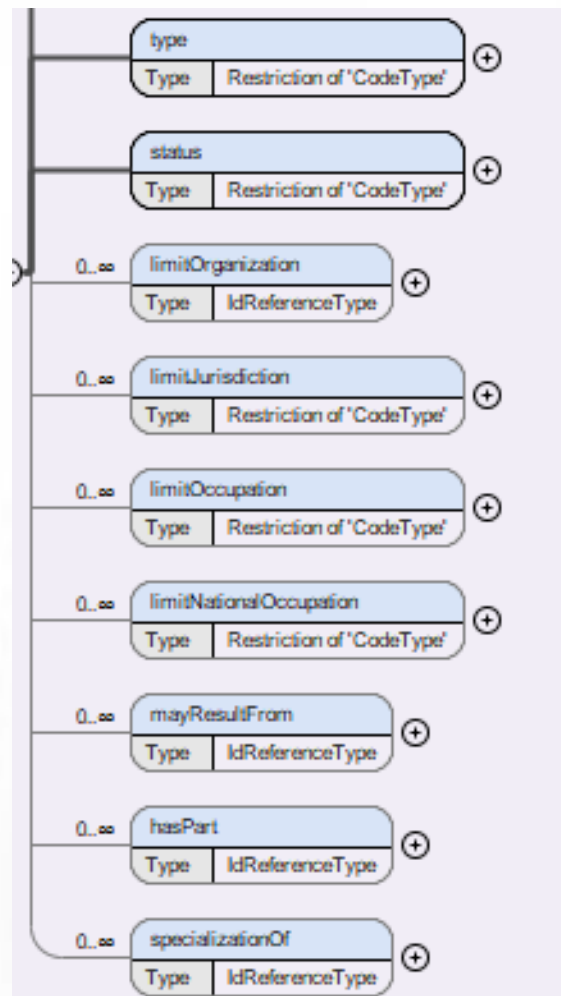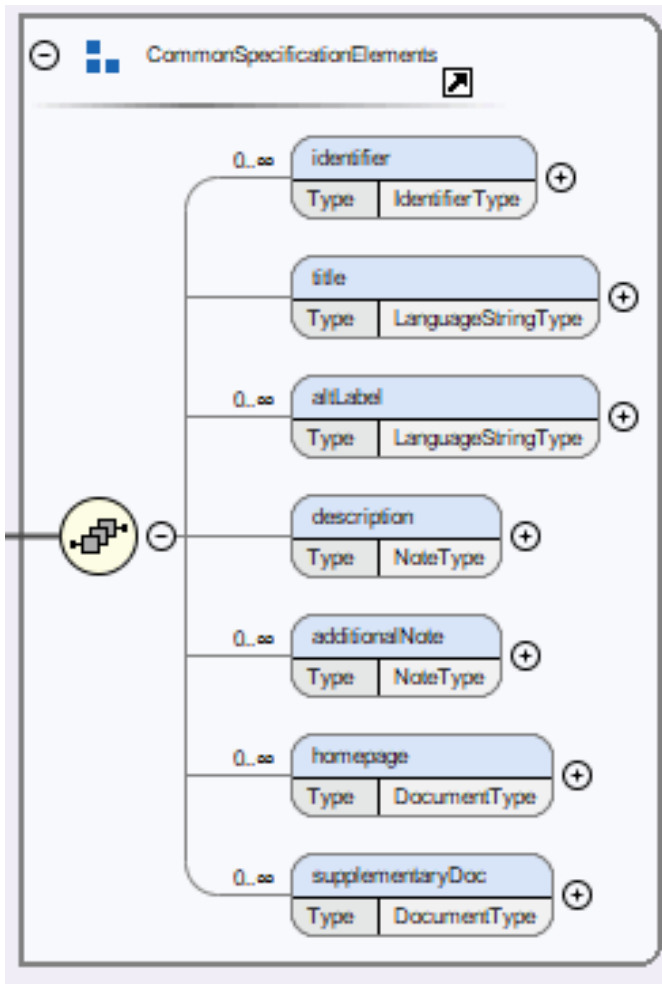- **Proposal**
  - Build converters?
    - from ELMO to EDCI
    - from EDCI to ELMO

ELMO support for new areas?

- Support for
    - Results of recognition
    - Licences / Authorizations
    - Driver licences and similar
    - Micro credentials / badges
    - Other areas?
- EDCI connection
    - Build coverters?
- How should we move forward?

EDCI Entitlement

EDSSI

- European Digital Student Service Infrastructure
  - New EU - CEF project
  - Core Service Platform to integrate solutions developed by Erasmus Without Paper, European Student Card, MyAcademic Id, EMREX
  - 16 partners, coordinated by Aristotle University of Thessaloniki
- Includes activities on Data models, ELMO, registry

EMREG

- Proposal for a new EMREG
  - Part of EDSSI project