European projects, what's going on

Victoriano Giralt

University of Málaga CIO
Groningen Declaration Network Former President

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UNIVERSIDAD DE MALAGA

DATA SUMMIT

SPRING
2019

PESC

"All your documents are born digital"

Thomas C. Black, @stanford.edu

*"All your documents
are born digital"*

Thomas C. Black, @jhu.edu

*"We all have to
live in a digital world"*

*"We all have to
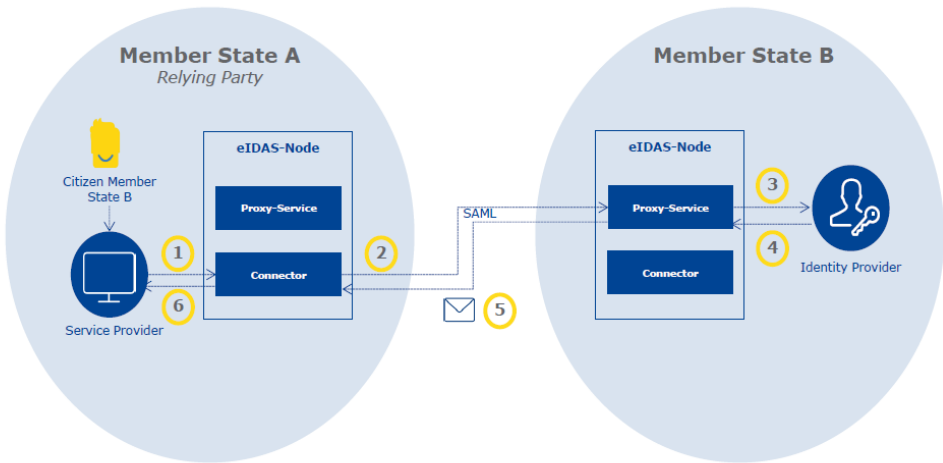be identified in such world"*

Yours truly, @uma.es

eIDAS

eIDAS

► European regulation on eID and Signature
► Based on cooperation and reciprocity between states
► Establishes mutual recognition of eID schemes
► Member states have sovereignty over:
  ► Which schemes are notified
  ► Organisation of the federation at national level.
► Mandatory for public services

- Countries setting-up an eIDAS compliant Node:
  AT*, BE*, CZ*, DE, DK*, EE*, EL*, ES*, FR, HR*, HU, IR, IS, IT*, LT, LU*, LV*, MT*, NL*, NO*, PL*, PT, SI, SK, SE, UK*

- Countries planning national eIDAS Node implementation:
  BG, CY, FI, RO, TR

countries that expressed intent to use CEF eID sample implementation

Member State A
Relying Party

Member State B

eIDAS-Node

Proxy-Service

Connector

Citizen Member State B

Service Provider

SAML

eIDAS-Node

Proxy-Service

Connector

Identity Provider

CEF

CEF
Connecting Europe Facility

CEF

EU funding programme (2014-2020) to support
the deployment of pan-European communication networks.

► Digital Single Market strategy
► Node deployment funding
► Service integration funding
► Interest on student mobility services

TOOP

TOOP
The Once Only Principle

TOOP

- ▶ Launched in January 2017
- ▶ 51 Organisations
  from 21 EU member and associated states
- ▶ Federated pan-European IT infrastruture
- ▶ Reduce administrative burden
- ▶ Inherits SCOOP4C project

providing
data
once-only.eu

TOOP

- ▶ e-Services for business mobility
- ▶ Updating connected company data
- ▶ Online ship and crew certificates
- ▶ Educational use cases from SCOOP4C
    - ▶ Estonian Education Information System (EHIS)
    - ▶ Estonian Online Application Portal (SAIS)
    - ▶ Irish Central Application Office
    - ▶ Netherland's Studielink project
    - ▶ Portuguese Levantamento Geral de Dados da FMUP (LGDF)
    - ▶ Interoperability Node of the Spanish University System (NISUE)
    - ▶ UK Universities and Colleges Admissions System (UCAS)
    - ▶ European Student Card (ESC)

Why academic mobility?

Current Erasmus+ figures

- ▶ Over 4 million mobility beneficiaries
- ▶ €14.7 billion from 2014 to 2020
- ▶ Student, staff and youth mobility
- ▶ Volunteering
- ▶ Support for projects

Future Erasmus program figures

- ► 2021-2027
- ► Budget doubles to €30 billion
- ► Number of participants triples to 12 million

eduGAIN

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eduGAIN WORLDWIDE

eduGAIN

GÉANT

55+ FEDERATIONS

>2.600 IDENTITY PROVIDERS

>1.900 SERVICE PROVIDERS

33M AUTHENTICATIONS PER WEEK (est)

27M USERS (est)
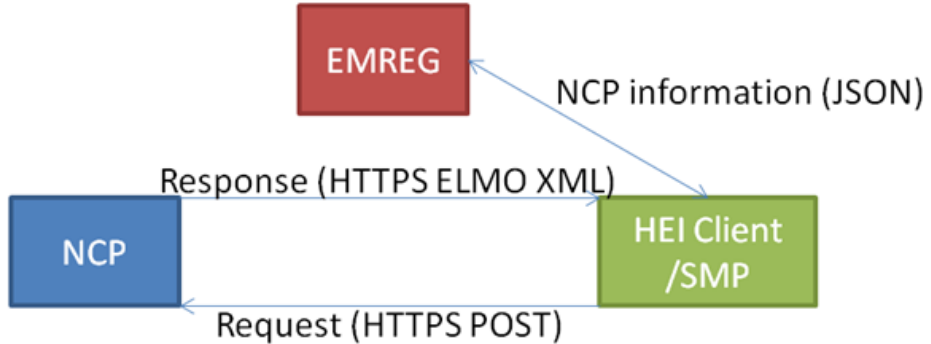
June 2018

edugain.org

EMREX

EMREX

- ▶ Electronic data exchange solution
- ▶ Empowers individuals to control their student data
- ▶ EMREX User Group = Independent international network
- ▶ user initiated (= *less GDPR*)
- ▶ *ELMO inside*

EMREX

EMREX

EMREX client web application connected to SIS

NCP National Contact Point (fetches results)

SMP Student Mobility Plugin

EMREG EMREX Registry

EMREX

1. Authenticate student
2. Fetch results for student
3. Store results for student

EMREX

- ▶ 7 countries
- ▶ 17 members
- ▶ 1500 students served

EMREX

- ▶ recognition of external studies
- ▶ internal mobility within a country
- ▶ verifying prior learning
- ▶ verification of credentials
- ▶ . . .

ESMO

ESMO
eIDAS-enabled Student Mobility

ESMO

- ► Promote eIDAS adoption through the CEF eID
- ► Facilitate learning mobility
- ► Ease management of trust and data requirements
- ► Promote convergence with EduGAIN
- ► Cooperate with other CEF and Erasmus+ projects
- ► Promote collaboration with key HighEd stakeholders

ESC

ESC
European Student Card

ESC

- ▶ Aimed at EHEA and beyond
- ▶ Not only for physical cards
- ▶ Ease verification of *studentness*
- ▶ Create the European Student Identier (ESI)
- ▶ Institution Identifier *????*

ESC

ESC

ESC

CNOUS: 0,00% (1)

EDUCatt: 0,02% (16)

INSA Rouen: 2,10% (1 849)

Karlsruher Institut für Technologie KIT: 0,01% (8)

Université Paris Sud: 15,12% (13 297)

Université Le Havre Normandie : 2,18% (1 919)

Université Grenobles Alpes: 13,85% (12 177)

Université de Strasbourg: 0,00% (3)

Université de Rouen Normandie: 9,69% (8 524)

Université de Caen Normandie: 15,75% (13 851)

Universidad de Málaga: 41,27% (36 290)

Universitat Rovira i Virgili: 0,00% (3)
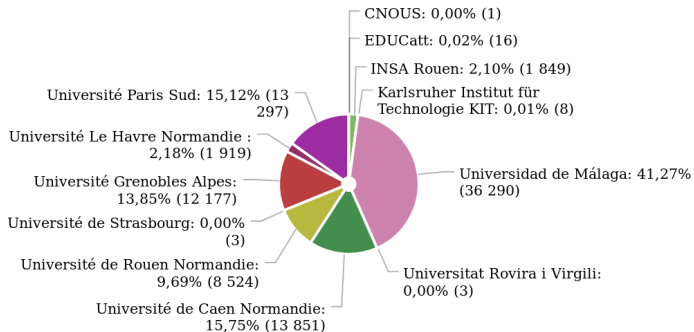
ESC

► RFC-4122 UUID

► Seeded with Institution EU PIC code

► Prefix for the computer generating the number

► .Net and Java libraries available (Python from UMA)

ESC

- ▶ Aimed at EHEA and beyond
- ▶ Not only for physical cards
- ▶ Ease verification of *studentness*
- ▶ Create the *Global* Student Identier?
- ▶ Institution Identifier *????*

ESC

- ▶ Aimed at EHEA and beyond
- ▶ Not only for physical cards
- ▶ Ease verification of *studentness*
- ▶ Create the *Global Academic* Identier?
- ▶ Institution Identifier ***????***

SEAL

SEAL
Student and Citizen Identities Linked

SEAL

Create a framework for
effective and standardised management of
identities and relationships among them.
Building on ESMO results

- ▶ Facilitate linking a citizen's electronic identities
- ▶ User centred procedure design
- ▶ Full control of the data lifecycle:
  what is released and when
- ▶ Standardize interfaces for identity access and
  link assurance
- ▶ Decentralised and scalable infrastructure and storage

MyAcademicId

MyAcademicId

- ► Secure and seamless electronic interactions between HEIs
- ► Reinforcing the European student status
- ► Enabling seamless mobility of students across borders
- ► Allowing students to authenticate and
  transfer relevant data using their student credentials

MyAcademicID

EWP

EWP
Erasmus Without Paper 2.0

EWP

Main aim

Enable inter-operability and electronic exchange of student data
among universities as part of Erasmus+ and beyond

erasmus
without paper

EWP

- ► An electronic network
- ► Registry
- ► APIs
- ► Manifest files

EWP

EWP 2.0 Standards mandatory from 2021 on

2021 Inter-institutional agreements
2021 Online learning agreements
2022 Nominations
2023 Transcript of records

erasmus
without paper

EWP

- ► Live since December 2018
- ► ~1000 universities connected
- ► Up to 5000 expected by 2021
- ► Single point of entry into the EU
- ► Happy to connect with regional or national nodes

erasmus
without paper

Are we ready to collaborate?

Yes!

on a global scale

on a global scale

How about a *Standards Awareness* Task Force?

Thank you

Thank you

Questions?
answers not assured
(choose your meaning)

Web sites for the projects

eIDAS https://www.eid.as/
CEF https://ec.europa.eu/inea/en/connecting-europe-facility
TOOP https://www.toop.eu/
SCOOP4C https://scoop4c.eu/
eduGAIN https://edugain.org/
EMREX https://www.emrex.eu/
ESMO https://www.esmo-project.eu/
ESC https://europeanstudentcard.eu/
EWP https://www.erasmuswithoutpaper.eu/
GDN https://www.groningendeclaration.org/