PESC Updates

Rapid-fire!

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RAPID-FIRE Agenda

- Standards Forum
- GEO-Code
- JSON-LD Transcript
- CanPESC
Standards Forum
Standards Forums

- Current Iteration of long-standing governance related to technical implementation of standards
- Friendly place to ask questions for definitively correct answer!
- Supports the revision submission and post-submission process
- Meets every Friday morning, includes the PESC Steering committee one First Fridays
GEO-Code

Global Education Organization Code

26876 INSTITUTIONS

212 COUNTRIES
GEO-Code

- Born in 2016 as a PESC initiative (Revisited)
  - USC + International Credentials Vendor driven solution
- Guiding principles published in 2017
- MPV web services live in 2017
- Most countries and territories are currently indexed
- A view of our Guiding principles, and GEOcode Definitions/scope
  - pesc.org/geo-code.html
GEO-Code

- Current Status of the Project:
  - ECE development continues beyond MVP
    - Technology Refresh w/Azure Devops
      - Increased Reliability, Usability, Security and Future Proofing
      - New Modern UI
      - New and extended RESTful API’s
  - Helpful partners/contributors update
    - Creation of a larger PESC environment, now including GEO Codes in new more accessible and updatable environment
    - PESC GEO Codes back end and front end technical updates, user requirement refinements, and documentation plans in progress
    - Project goal of improving ease of GEO Codes data maintenance, updates, search and use.
Other active GEO-Code initiatives

- Native indices options for the directory service
- 5-year country update review in progress
- High School GEOCode active for some countries
- Record Reference features coming soon (links closed, renamed, merged schools)
- Build out of Country Administrator/sub-Country admin capabilities
- Broadening the scope of developers
- Seeking out additional co-chair(s) for consideration by Steering Committee
- Most back- and front-end improvements and enhancements scheduled for completion in early 2024
JSON-LD Transcript

Creating a machine readable, semantic
PESC College Transcript
History/Progress

- Started in 2021 to develop a JSON version of PESC college transcript based on the PESC XML college transcript
- Early work to review JSON vs JSON-LD and determine path
- JSON transcript faster but JSON-LD provides longer term benefits
- Developed initial RDF college transcript model
- Decision to align with other standards
  - CEDS - Common Education Data Standards
  - Credential Engine
  - W3C Verifiable Credentials
  - 1EdTech CLR
- Currently working directly with CEDS to align properties
RDF/JSON-LD

- RDF - Resource Description Framework
- Triple-form linguistic construct
- Subject - Predicate - Object
  - “Transcript XYZ” - student - “John Smith”
  - “John Smith” - member - “Institution X”
- JSON-LD
  - Serialization of RDF
  - Extension of JSON
- Very different design process from JSON
  - JSON is a data structure
  - JSON-LD captures data but also semantically references resources in linked ontologies
Focus

- Near term - Data Exchange
- Longer term - Transcript in a learner’s lifelong educational record
  - Verifiable Credentials
PESC JSON-LD Transcript

Model in development, names of things may change.

- Transcript
  - hasPart
    - Academic Achievement
      - inCourse
        - Course
          - isCourseOf
            - Academic Program
              - hasSession
                - Academic Session
  - source
    - destination
  - student
    - achievement
      - school
  - member
    - Organization
      - inProgram
      - offeredBy
      - Academic Program
      - inProgram
Who we are, where we’ve been and where we’re heading, eh!
About CanPESC

❖ Canadian PESC User Group
   https://www.pesc.org/canadian-pesc-user-group-1.html

❖ Open, volunteer PESC user group
   ➢ Members from Canadian PSIs, hubs, government, vendors
   ➢ Discuss, promote, coordinate and liaise between PESC and ARUCC
   ➢ Ensure PESC’s mission and deliverables, including approved standards, supports and incorporates the needs and interests of Canadian stakeholders
A brief history of CanPESC

- **Late 1980’s Task Force**
- **Early 1990’s until today SPEEDE Committee**
- **1997 Established**
- **2011 CanPESC launched**
- **1990’s – 2001 EDI Task Force**
- **2013 MOU**
- **2014 discuss GDN**
- **2016 GDN Project**
- **2020 MyCreds**
Recent initiatives and accomplishments

❖ Standards of Practice: “Tip Sheet” (v1.0)

❖ Common Digital Layout (CDL): Operational - both PSI and HS!
  ➢ White paper
  ➢ Tool/methodology, technical resources (GitHub)

❖ GEO Code: ~66% PSI and ~50% HS in Canada are codified!
An aside: Communication of information changes – or, does it?

Then …

Now …

Acknowledgement: Sheetal Patel, Stanford
Future directions

❖ CDL: French labels/headings for printed fields
❖ Standards Upgrade Pathway: White Paper
❖ GEO Code: Additional HS and PSI types
QUESTIONS??

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