EDU-API
Presentation from EDU-API Task Force at IMS Europe Summit 2019

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Agenda

- What is EDU-API?
- Guiding Principles
- Interoperability
- EDU-API Concept Model
- What is an Education?
- Examples
  - Educations
  - Education Offering – How to instantiate an Education in time
  - Offering Association – How to connect a person to an Education Offering
- Benefits
- What Happens Next?
What is EDU-API?

- IMS already have two standards for Learning Interoperability
- So why do we need a new?
  - LIS is getting old
  - One Roster is targeted at K12 and do not carry enough information for Higher Education
    - One Roster should stay simple for K12
  - New requirements have been identified – Higher Ed Survey
  - Input from Cal State API, BYU API and others

- EDU-API is the answer to solve the issues above
  - We look into modern representations like:
    - Synchronous Services based on REST/JSON
    - We are also exploring asynchronous event driven solutions
      - Publication once – many subscribers (Pub/Sub)
  - The work is done iteratively
    - The first release will focus on a small set of entities
    - More releases will come!
Guiding Principles

**Concept Model**
Define a shared concept model to ensure clarity of terms and their meaning.

**Information/Entity Model**
Define a shared information/entity model based on the shared concept model that provides technical continuity across bindings.

**Interoperability**
Ensure that systems, vendors, products, and any solution is interoperable for the use cases and workflows supported.

**Integration points**
Focus data shared at integration points rather than data representations that are specific to proprietary inside domain solutions.

**Iterative/MVP Development Paradigm**
Interoperability

- SIS (Student Information System)
- LMS (Learning Management System)
- Course Catalogue
- DEX (Digital Examination)
These are examples of Education Types. Naming and granularity need to be investigated. The relation to Role need to be explored. E.g. Is there a difference to enroll as the "Main Teacher", or is this expressed in another way?
What is an Education?
It may be a Course

- The most common form of Education is a Course
It may be a lab or a module in a course

- An Education can be broken down into smaller pieces
  - Modules/Components
  - Labs
  - Etc.

Course
Chemistry 101

- Module 1
  - Introduction to explosives
- Lab 1
  - How to blow up things
- Module 2
  - Advanced Explosives
It may be a Program

- An education can be an aggregate of courses
- A Program will usually give you a degree like a Bachelor or a Major
Example

Lucy is interested in Chemistry. She is not sure about a career in this field, so she will start by taking a basic course.

Stan has always dreamed about becoming a doctor. He would like to sign up for the Doctors Program.

Course
- Chemistry 101
  - 20 weeks

Doctors Program
- 5.5 years
A Program usually run on full speed, but may start many times a year.
- It is the same mechanism as above.

I need to apply for admittance.
Offering Associations

Educations

Course
Chemistry 101
20 weeks

Doctors Program
5.5 years

Education Offerings

Chemistry 101
100% Speed
Starting Spring Semester 2020
Campus Gothenburg

Chemistry 101
25% Speed
Starting Spring Semester 2020
Campus Gothenburg

Chemistry 101
100% Speed
Starting Autumn Semester 2020
Campus Gothenburg

Chemistry 101
100% Speed
Starting Spring Semester 2020
Campus Lindholmen

Doctors Program
100% Speed
Starting Spring Semester 2020
Gothenburg

Doctors Program
100% Speed
Starting Autumn Semester 2020
Gothenburg

Stan is already admitted and is ready to start. He accepts his seat in the education by Enrolling to the entire Program.
Teacher Association

Educations

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Chemistry 101
20 weeks

Doctors Program
5.5 years

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Doctors Program
100% Speed
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Doctors Program
100% Speed
Starting Autumn Semester 2020
Gothenburg

Susan will be equally responsible for the Doctors Program starting Autumn 2020.

Association

Teachers can also be associated to Offerings.

Mary teaches both the full speed Offering as well as the ¼ speed Offering. She continues with the same Education in the Autumn.

Rachel is teaching in another Campus and will teach the same Education as Mary in parallel.

Robert is responsible for the Doctors Program starting Spring 2020. This will keep him occupied for a long time.

Susan will be equally responsible for the Doctors Program starting Autumn 2020.
Benefits

- By having a generic Concept/Information Model we can support many Use Cases with the same set of Integration Messages.
- It is possible to break down Educations.
- It is possible to create many Offerings based on different Business Requirements.
- It is possible to associate persons on many levels.
- It is possible to associate persons to Offerings in different ways, E.g.:
  - Student Admittance
  - Student Enrollment
  - Teacher enrollment
  - etc.
What Happens Next?

- The EDU-API Task Force will conclude the Project Charter
- .. and transform into a Project Group
- We will define the MVP for the first iteration of EDU-API
- In practice, we are working with detailed specifications for the Message attributes and behaviors