Teaching Elephants to Dance: Edu-API Will Unlock the SIS

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#Edu-API
Today’s Session

➢ Intro (Michael/Linda) -- 10 mins
➢ U Wisc & EduAPI (Jared) -- 10 mins
➢ Next Steps (Linda/Cary) --15 mins
➢ Discussion/Next steps (All) -- 10 mins
Think and Share

Interactive Poll [www.slido.com](http://www.slido.com)
And enter code #EDU19
Intro
New Life for Legacy Systems

By Michael Berman
Report from the 2018 EDUCAUSE Task Force on Digital Transformation

“Stakeholders Need to Hear…

● Transformation is upon us
● The page of change is accelerating
● Agility is critical
● Adaptability is important”
Transformation
Change
Agility
Adaptability
BUY YOUR NEW CLOUD-BASED STUDENT SYSTEM TODAY!*
<table>
<thead>
<tr>
<th>Data Warehouse</th>
<th>APIs</th>
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</thead>
<tbody>
<tr>
<td>Periodic Updates</td>
<td>Real-Time (or Near Real-Time)</td>
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<tr>
<td>One-Way</td>
<td>Two-Way</td>
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</table>
What is the EDU-API
What is the Edu-API?

Curriculum
- Courses
- Programs
- Learning Paths

Offerings
- Classes
- Sections
- Events

Enrollment
- Students
- Teachers
- Observers

Academic Sessions
- Terms
- Sessions

Performance
- Grades
- Mastery

People
- Contact Info
- Demographics
Edu-API Design Goals

➔ Common Data Model for HE, K12 including International (consistent with other efforts)
➔ Provide most frequently accessed data about students (usually from SIS’s)
➔ Prefer readability over extreme flexibility of the model
➔ Focus on most common use cases (80/20)
➔ Allow for extensibility
Where are we now with Edu-API?

- Concept model
- MVP
- OpenAPI definitions in github
- Hackathon

Next: Charter working group, more formal spec with artifacts
University of Wisconsin-Madison
Edu-API Use Cases
Current State of Integrations at UW-Madison
Where UW-Madison is Going
How Edu-API Can Help

- Less time needed to create and maintain custom data models.
- Lighter or unneeded translation layer for integrations.
- Low reliance on vendor-specific integration protocols.
- More loosely coupled systems.
- Educated vendor selection.
What will Edu-API enable?

Integration Personas

Integration Specialists

Ad-Hoc Integrators

Citizen Integrators
Integration Platform with Edu-API
Next Steps for Edu-API
MVP Scope

- Rostering Use Case
  - Courses
  - People
  - Enrollments
- HE Focus
- OpenAPI 2.0 and 3.0 binding
What We Did At The Hackathon

- LIS “Adapter” for Edu-API
- Pull using REST service and Pub/Sub message from the same underlying information model
- Conversion from Edu-API to JSON API to illuminate the differences in approach
- Mapping from SAKORA (Sakai implementation of LIS) to Edu-API
- Using Edu-API to create a basic student class schedule
Current IMS Specification Workflow
Toward a more agile workflow?

Iterate through faster release cycles, multiple updates over the course of first 3 years

- Iterations can be additive, but not destructive, cannot impose versioning.
- Can we reduce certified implementation requirements to only apply to full releases, not iterations?
- MUST adhere to conformance testing requirements and other processes that ensure rigor and prove interoperability
- Must work with supplier community in understanding the productization and delivery lifecycle
Discussion

Join us:
EDU-API Task Force
https://www.imsglobal.org/edu-api
Contact: Cary Brown
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IMS Director of Higher Education Programs

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