Modern Employment and Digital Credentials

Tech Track
Modern Employment and Digital Credentials

Implementing Open Badges 2.0

Moderator:
Mark Leuba, IMS

Panelists:
Justin Pitcher, Chalk and Wire
Jonathan Finkelstein, Credly
Eric Rousselle, Discendum
Peter Janzow, Pearson
Modern Employment and Digital Credentials

Future of the Backpack

Moderator:
Matt Rogers, Digitalme

Panelists:
Justin Pitcher, Chalk and Wire
Peter Janzow, Pearson
Markus Gyling, IMS
Mark Leuba, IMS
Backpack session
Modern Employment & Digital Credentials Event 1 Dec 2017
Tim Riches
Exec Director Digitalme
In 2011, Mozilla’s Open Badges project changed the digital credentialing landscape as we knew it. It provided a new way for learning to be captured and shared across the web to unlock education and work based opportunities for individuals.
The Backpack

The Mozilla Backpack allowed end users to store and move their badges between platforms, regardless of where they were issued from.
Mozilla always envisioned a network of backpacks

See Chris McAvoy's archived blog “Let's make more backpacks”
Digitalme and The Backpack
Digitalme and The Backpack

- Asked to **steward** the next stage of Backpack development
- Period of consultation with users
- Identified priority areas: V2 & Multiple emails
- Replaced Persona login system
- On staging reading for testing by platforms
Bringing in multiple emails and Email Verification
Backpack Connect

Backpack 1
Backpack 2
Backpack 3
Backpack 4

Connect API

One time sign in creates a trusted connection.
Questions?

Points for consideration:

● Pause until we get feedback and have conversations with sector
● Possible avenues
  ○ Protocal
  ○ Connect API
  ○ ‘Dropbox model’
● Is the backpack still needed with version 2.0?
Appendices

In 2016 / 2017 we carried out a consultation with members of the open badges community and IMS members.

6 June 2017 we started a working group to discuss potential routes forward. This was the first time we had broad agreement from the group about the direction.

See discussion here.

Blogs from the Digitalme team based around this consultation

Backpack and Digitalme - Omid Mufeed

We need to talk about The Backpack - Jason McGonigle

Backpack - I Choose You! - Matt Rogers
Modern Employment and Digital Credentials

Competency Mapping Approaches

Colin Smith, IMS Global
Ilona Buchem, Beuth University
Competency Mapping Approaches: IMS Competencies & Academic Standards Exchange (CASE)

Colin Smythe
Chief Architect (IMS Global)
c.smythe@imsglobal.org
Contents

• IMS History of Specifications
• The CASE Specification
• What Next for CASE?
IMS Specification Suite

- Accessibility
- Accessible Portable Item Protocol®
- Caliper Analytics®
- Competency Definitions
- Content Packaging
- Common Cartridge®
- Competencies and Academic Standards Exchange™
- Course Planning and Scheduling
- Digital Repositories
- Enterprise
- Enterprise Services
- ePortfolio
- General Web Services
- Interactive WhiteBoard/ Common File Format
- Learner Information
- Learning Design
- Learning Information Services
- Learning Object Discovery and Exchange
- Learning Tools Interoperability®
- Meta-data
- OneRoster®
- Open Badges
- Question and Test Interoperability
- Resource List Interoperability
- Shareable State Persistence
- Simple Sequencing
- Student Induction to e-Learning
- Tools Interoperability
- Vocabulary Definition Exchange
- Resource Description Framework Bindings (RDF)

We will release at least 3 new specifications in early 2018 with new versions of several other specifications during 2018.
Contents

• IMS History of Specifications
• The CASE Specification
• What Next for CASE?
CASE 1.0 Scope

• CASE™ is used to exchange information about learning and education competencies. CASE also transmits information about rubrics, criteria for performance tasks, which may or may not be aligned to competencies.

• Can exchange associations between competency frameworks.
Standards & Rubrics

Structure of a Standard

<table>
<thead>
<tr>
<th>Statement 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statement 1.1</td>
</tr>
<tr>
<td>Statement 1.2</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Statement 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statement 2.1</td>
</tr>
<tr>
<td>...</td>
</tr>
<tr>
<td>Statement 2.X</td>
</tr>
</tbody>
</table>

| Statement Z |

Structure of a Rubric

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Weight</th>
<th>4 Points</th>
<th>3 Points</th>
<th>2 Points</th>
<th>1 Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Has a plan for Investigation</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>The student turns in a written plan for investigation.</td>
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<td></td>
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<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The plan is thorough</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rubric Criterion Title</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rubric Criterion Level Score</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Rubric Criterion Weight</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Rubric Criterion Description</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use of Materials</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>The student manages materials responsibly.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uses the materials responsibly most of the time</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rubric Criterion Level</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collects the Data</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The student collects a sufficient number of data points to support the investigation and accurately records the data points.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major portions of the data are missing</td>
<td></td>
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</tr>
</tbody>
</table>

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The CASE 1.0 supports ‘pull’ services only i.e. read data.
CASE Package

• This package is exchanged as a JSON payload using the REST-service definition
• Subsets of this structure can also be exchanged
CASE Current State

- Released in July 2017
- See: https://www.imsglobal.org/activity/case
- Small number of vendors are certified (consumers and providers)
CASE Next Steps

• Integrate with other IMS specifications
  – OneRoster
  – Common Cartridge
  – Question & Test Interoperability
  – LTI Resource Search
  – Extended Transcript

• Identify pain-points for potential CASE 1.1 development
Summary

• CASE supports the exchange of:
  – Competencies and Academic Standards definitions
  – Rubrics definitions
  – Mappings between competency frameworks

• CASE specification released in July 2017
  – See: https://www.imsglobal.org/activity/case

• Next steps are to embed the use of CASE identifiers CASE in other IMS specifications
Questions & Comments