Roadmap 2020

Barcelona
October 10, 2019

Better Learning
From
Better Learning Technology®
Our Sponsors
Achieving Learning Impact

Remove usability barriers and provide actionable insights

Ensure integrity, privacy and security of data

Enable mastery-based pedagogies and traditional forms

Respect the central learner’s role in the education process
Key Themes for the IMS Roadmap

- Ecosystem
- Trust and Transparency
- Actionable Data
- User Experience
- Demonstration of Mastery
OneRoster

Securely exchanges enrolment, instructional resources and demographic data between a student information system (SIS) and a learning or assessment platform, returning grades to the SIS system of record.
Common Cartridges

A packaging format to **exchange and deliver content**, including QTI assessments, into a learning platform. Content can be embedded directly in the cartridge or cloud-hosted and linked via LTI (Thin Common Cartridge).
An open publishing format to align digital resources with objectives in education and workplace. Connecting instruction and assessment with academic standards, learning objectives and competencies.
Learning Tools Interoperability

Learning Object Repository → Learning/Assessment Platform → Learning Apps and Tools

Securely connects teachers and students in real time to digital learning objects, assessments and tools for a seamless teaching and learning experience.
LTI Advantage

- New IMS Security Framework
- Core LTI version 1.3
- Three services to **enhance course building, personalization and grading.**
Question & Test Interoperability (QTI)

An open standard for **authoring, management, delivery, and scoring** of accessible assessments aligned to academic standards and enabled for **computer-adaptive testing** (CAT v1.0).
Caliper Learning Analytics

A semantic representation of learner activity providing a consistent form of data from multiple source systems across the organization.
Open Badges v2

Visual tokens of embedded data representing achievement, affiliation, authorization, or other assertion shareable across the web.
Comprehensive Learner Record

A open standard package of **verifiable learning achievements** which can be curated and **shared** by the learner with others. A wide variety of achievement types are supported including open badges.
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- Ecosystem
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Ecosystem

• Integration of CASE
  – OneRoster (v1.2), Common Cartridges (v1.4), Open Badges (v2.x), Comprehensive Learner Record (v1.0), LTI Resource Search (v1.0), Caliper (v1.2) implementation guidance

• Integration of LTI, Caliper, Common Cartridges
  – LTI: Caliper Connector Service
  – Caliper: LTI Tool Launch, Tool Use Profiles
  – Common Cartridges - Gradable LTI links, QTI
Ecosystem

- Common Data Model
- Cross-specification Implementation Guidance
- Joint Product Steering Committees
- Unique Identifier Best Practices
- Expansion of the use of Profiles
- Common Extensibility Initiative
Trust and Transparency

• New IMS Security Framework (ISF)
  – LTI Advantage, Open Badges, CLR, OneRoster
• Formation of IMS Security Committee
• App Vetting - Privacy and Security Rating
• 1EdTech - next-generation interoperability tools
• Improved Product Directory
Actionable Data

- **EDU-API**
  - REST API toolkit for flexible provider-consumer models

- **Integrated Analytics**
  - Exchange context/reference data across ecosystem

- **Expanded Caliper 1.2 Profiles**
  - Tool Launch, Tool Use, Feedback Profile, Resource Mgmt Profile, Search Profile, Survey Profile

- **Pilot Projects: LTI Insights and Adaptive Learning**
User Experience

• LTI Advantage
  – *Easier course building and grading for teachers*
  – *Seamless tool experience for learners*
  – *Faster setup and configuration for IT administrators*

• QTI 3.0
  – *Adoption of applicable HTML5*
  – *Accessibility-Rich Internet Applications (ARIA)*
  – *Alternative Content for cognitive accommodation*

• Common Cartridges 1.4 and LTI Resource Search
  – *Improved content searchability*
User Experience

• Badge Connect™ Open Badges 2.1
  – Learner control across a federated network of badge hosts

• Comprehensive Learner Record 1.0
  – Organize, curate and share verifiable achievements
Enabling Mastery

- Competency and Academic Standards Exchange - CASE\textsuperscript{(R)} Alignments
- Assessment Results Profile of OneRoster 1.2
  - Support for a mastery-based gradebook
- CASE Network - free access to publish and exchange academic and skill standards
European Contributions

- QTI 3.0
- EDU-API Taskforce
- IMS Europe Technical Taskforce
  - OneRoster
- Unique Identifier Best Practices
- Open Badges v2
# Roadmap for Certified Releases

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How Do We Achieve Learning Impact?

Remove usability barriers and provide actionable insights

Enable competency-based *and* traditional pedagogies

Ensure integrity, privacy and security of data

Respect the learner’s role in the education process
How Do We Achieve Learning Impact?

VALUE

Open Standards

Resources and Tools

Testing and Certification
Bringing Together Like-Minded Professionals
With One Goal in Mind
Spanning Education and Workforce
...In a Continuum of Lifelong Learning
More Information:

Summary of Major Initiatives

https://www.imsglobal.org/ims-major-initiatives-roadmap

Member Suggestions

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