Transforming the College Digital Learning Environment

(Part One)

Speakers

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IMS Global Learning Consortium's Mission

Advance teaching and learning through technology that can affordably scale to improve educational access and attainment

**Better Learning
From
Better Learning Technology®**

www.imsglobal.org/ar2018

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Five Strategic Key Initiatives

DIGITAL MICRO-CREDENTIALS

LEARNING DATA & ANALYTICS

INTEGRATED ASSESSMENT

LEARNING PLATFORMS, APPS & TOOLS

ADAPTIVE DIGITAL CURRICULUM

Enabling institutions to fully leverage the benefits of digital technology

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IMS Standards:
Enabling a Connected Teaching and Learning Ecosystem

PROGRAM MANAGEMENT
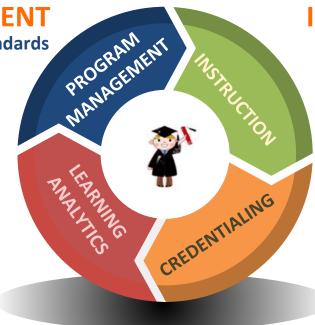
Competencies and Academic Standards Exchange (CASE)

Common Cartridge

Edu-API

Question & Test Interoperability

INSTRUCTION

LTI Advantage

Competencies and Academic Standards Exchange (CASE)

Question & Test Interoperability

LEARNING ANALYTICS

Caliper Analytics

LTI Insights

CASE

CREDENTIALING

CASE

Comprehensive Learner Record (CLR)

Open Badges (OBv2)

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Learning Tools Interoperability (LTI)

Connect

Securely connect learning platforms and tools

Learning Platform
Tool Consumer

Launch

LTI

Confirm

Confirm the tool, the user and the context

Learning Tools
Tool Provider

Exchange

Exchange information in a teaching and learning workflow

- The preferred edtech industry standard that securely enables one-click, seamless connection of a learning tool and platform
- Confirms tool credentials and exchanges information in a teaching and learning workflow
- All major platforms and hundreds of learning apps are LTI certified

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Learning Platforms, Apps and Tools Interoperability

Unparalled leadership collaboration enabling next generation learning environments

LTI Advantage: Innovation at the Speed of Now

Names and Role Provisioning Service

Sends a list of course participants and faculty defined groups to learning tools in a safe and secure manner.

Deep Linking

Enables a more intuitive way to add content and links to a platform from a learning tool or publisher content.

Assignment and Grade Services

A+

Exchanges assignment progress, instructor comments, and scores from an assessment tool to the gradebook platform.

LTI Advantage instantly and securely connects teachers and students to digital learning objects, assessments, apps and tools for better usability and actionable data; the foundation for next generation digital learning

Learn More – Watch the Get to Know LTI Advantage Video
www.imsglobal.org/TakeAdvantage

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LTI Advantage Toolkit

- For higher education IT organizations and procurement offices
- Provides resources and sample RFP language
- Helps guide conversations with edtech supplier partners about adoption and IMS certification for LTI and LTI Advantage
- Toolkit assets will be kept up-to-date

Download the LTI Advantage Toolkit today at
www.imsglobal.org/lti/toolkit

Learning Data & Analytics

Providing a foundation to make it easier to get real-time usage and progress data out of any educational application

Caliper Learning Analytics

Capture and measure learner actions and events in real time

Adaptive Learning

- Developing adaptive learning framework for structuring data aligned with pedagogy
- Exploring ways to share and track content within and between adaptive learning systems and to map IMS Global standards to those systems to make it easier for academic and IT staff to support adaptive learning initiatives.
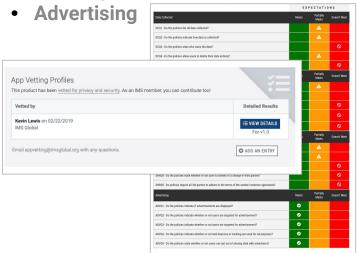
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Student Privacy Interoperability

Institutional/supplier collaboration for scalable and effective student data privacy across the edtech sector

- **Data Collected**
- **Security**
- **3rd Party Data Sharing**
- **Advertising**

App Vetting Profiles
This product has been vetted for privacy and security. As an IMS member, you can contribute too!

Vetted by	Detailed Results
Kevin Lewis on 02/22/2019 IMS Global	☰ VIEW DETAILS For v1.0

Email appvetting@imsglobal.org with any questions.

➕ ADD AN ENTRY

IMS Global Lite App Vetting Rubric (Draft)

The following rubric may be used as a guide while vetting applications.

The rubric is still in draft format and only available to IMS members. Feedback on the rubric may be sent to appvetting@imsglobal.org

Data Collected	Does Not Meet Expectations	Meets Expectations (Reservations)	Meets Expectations
The policies list all data collected	Policies do not list data it collects	Policies give a broad statement of data it collects	Policy lists the data collected
The policies indicate how data is collected	No indication of how data is collected	Policy gives a broad statement of how data is collected	Policies state specifically how data is collected
The policies state who owns the data	Policies do not state who owns the data	User owns data but supplier grants itself control on the use of the data	Policy states the user owns the data alone
The policies allow users to delete their data entirely	Policy does not allow users to delete their	Policy de-identifies users. cannot fully delete	Policies allow users to delete ...rely after a period of
The policies state the retention of data			...s a 60 day retention
Security			...eets Expectations
Policies state how data is protected			...ts steps it takes to ...ata
Policies state all confidential & sensitive information is encrypted throughout	No data encryption or mention of data encryption	Data encrypted at login only	Data encrypted throughout
Policies state whether or not it enforces strong password creation	Does not enforce strong password creation or mention of requirements	Provides guidance for password creation	Enforces strong password creation
policies indicate whether or not it has 2 step authentication	Does not have 2 step authentication	Uses the simplest form of authentication	Offers 2 step authentication but does not enforce it
Policies state the use of cookies	Uses cookies for purposes not related to functionality of app	States the use of cookies but does not list cookies	Lists all cookies used and each cookies purpose
Third Party Data Sharing	**Does Not Meet Expectations**	**Meets Expectations (Reservations)**	**Meets Expectations**
The policies list all 3rd parties	Policy says it may share but does not list 3rd parties on its site	Policy lists all 3rd parties as one	Policy lists 3rd parties separately

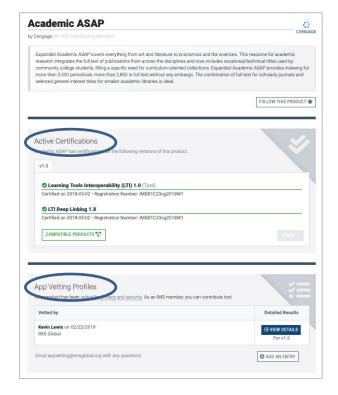Over 2700 products have been reviewed and over 1500 policies have been vetted using the IMS APP VETTING program
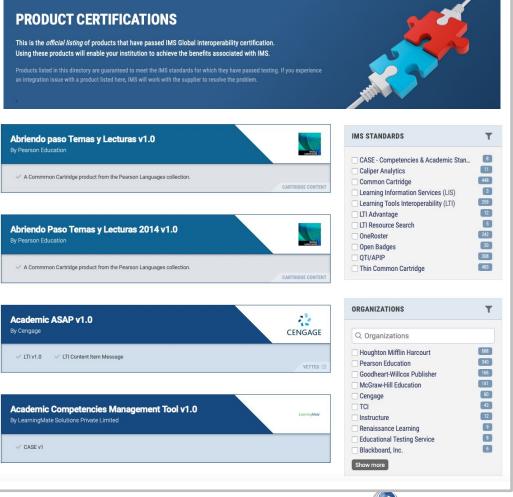
IMS Certified Product Directory

▸ Official products listing having passed IMS Global interoperability

▸ Guaranteed to meet the IMS standards for which they have passed testing

▸ If a product is NOT listed in the directory it has either not passed IMS testing or certification has expired

imscert.org

IMS Product Directory

Verify certification at **imscert.org**

Academic ASAP

by Cengage (An IMS Contributing Member)

Expanded Academic ASAP covers everything from art and literature to economics and the sciences. This resource for academic research integrates the full text of publications from across the disciplines and now includes vocational/technical titles used by community college students, filling a specific need for curriculum-oriented collections. Expanded Academic ASAP provides indexing for more than 5,000 periodicals, more than 2,800 in full text without any embargo. The combination of full text for scholarly journals and selected general interest titles for smaller academic libraries is ideal.

FOLLOW THIS PRODUCT ★

Active Certifications

Academic ASAP has certifications for the following versions of this product.

v1.0

✓ **Learning Tools Interoperability (LTI) 1.0** (Tool)
Certified on 2018-03-02 • Registration Number: IMSB1C23cg2018W1

✓ **LTI Deep Linking 1.X**
Certified on 2018-03-02 • Registration Number: IMSB1C23cg2018W1

COMPATIBLE PRODUCTS   ADMIN ▾

App Vetting Profiles

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⊕ ADD AN ENTRY

PRODUCT CERTIFICATIONS

This is the *official listing* of products that have passed IMS Global interoperability certification.
Using these products will enable your institution to achieve the benefits associated with IMS.

Products listed in this directory are guaranteed to meet the IMS standards for which they have passed testing. If you experience an integration issue with a product listed here, IMS will work with the supplier to resolve the problem.

Abriendo paso Temas y Lecturas v1.0
By Pearson Education

✓ A Common Cartridge product from the Pearson Languages collection.

CARTRIDGE CONTENT

Abriendo Paso Temas y Lecturas 2014 v1.0
By Pearson Education

✓ A Commmon Cartridge product from the Pearson Languages collection.

CARTRIDGE CONTENT

Academic ASAP v1.0
By Cengage

✓ LTI v1.0   ✓ LTI Content Item Message

VETTED ☰

Academic Competencies Management Tool v1.0
By LearningMate Solutions Private Limited

✓ CASE v1

IMS STANDARDS ⧩

☐ CASE - Competencies & Academic Stan...	8
☐ Caliper Analytics	11
☐ Common Cartridge	448
☐ Learning Information Services (LIS)	3
☐ Learning Tools Interoperability (LTI)	259
☐ LTI Advantage	12
☐ LTI Resource Search	5
☐ OneRoster	242
☐ Open Badges	20
☐ QTI/APIP	308
☐ Thin Common Cartridge	483

ORGANIZATIONS ⧩

🔍 Organizations

☐ Houghton Mifflin Harcourt	688
☐ Pearson Education	340
☐ Goodheart-Willcox Publisher	166
☐ McGraw-Hill Education	141
☐ Cengage	80
☐ TCI	43
☐ Instructure	12
☐ Renaissance Learning	9
☐ Educational Testing Service	8
☐ Blackboard, Inc.	6

Show more

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Kentucky Community & Technical College System

Paul Czarapata – VP/CIO

- Department of 35 in System Office
- Army of 1 managing our LMS
- Very small development team
- IMS Board member

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Kentucky Community & Technical College System

KCTCS By the numbers

- 16 individually accredited colleges
- Over 70 locations
- Over 110,000 credit students served annually
- 1 instance Student Information System (PeopleSoft Campus Solutions)
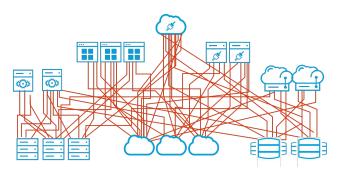- 1 instance Blackboard Learn SaaS hosted

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The Challenge for Community Colleges

- Constrained technical resources
- Limited funding
- Complicated integrations
- Security concerns
- Too many tools
- An onslaught of vendors

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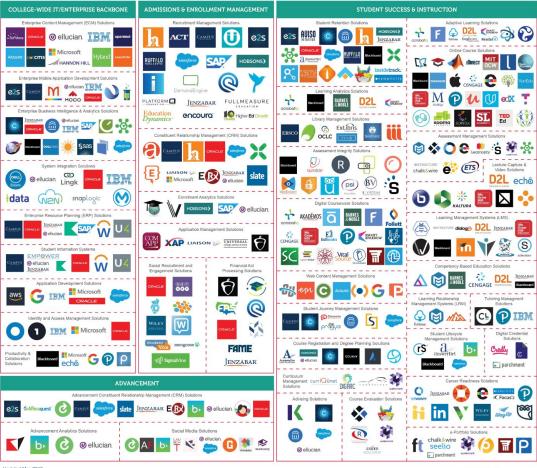
- Technology landscape very crowded
- Yet, you need some of them to transform
- All of these likely need integrations

Why Should We Care about IMS Global Standards (and Standards in General)?

- Strategic and relevant

- Resource savings

- Institutional agility, power of choice

- Risk reduction

- Member collaboration

IMS GLOBAL

CERTIFIED

Current Registrations:
imscert.org

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Strategic and Relevant

- Enabling your learning tools and content to integrate seamlessly without the overhead of customization
- Sustaining digital transformation and innovation at scale across the enterprise
- Providing faculty and instructional technologists with greater choice and flexibility to personalize learning and improve outcomes
- Harnessing learning data to inform institutional decisions, student recruitment and retention strategies

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Resource Savings

- Savings of both human and financial resources
- No need to waste valuable time and incurring costs reformatting and interpreting data again and again
- Common sets of data exchange standards free up more resources that can be focused on teaching and learning

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Institutional Agility/Power of Choice

- Shorter implementation time
- Shift to focus from custom "wiring" to innovation
- Adopt new platforms/technologies when you need them
- Get away from vendor lock in on proprietary monolithic stacks
  - Best of breed becomes more feasible, particularly for smaller institutions
- Level the playing fields (IMS can be your slingshot!)
- Common sets of data exchange standards free up more resources that can be focused on teaching and learning

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Risk Reduction

- Standards can enable efficient automation therefore reducing costs and risk
- For high value transactions, errors can result in significant losses and frustration
- If integrations are standardized, we can leverage/trust third parties more easily because risks of failure are reduced

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Benefits of IMS Global Membership

- One of largest standards consortiums
- Collaborate with folks that have "been there / done that"
- Numerous ways to get involved
- Unique opportunities to collaborate/pilot with vendors in Higher Education
- Learn more about being a contributing member here: www.imsglobal.org/join
- Download Higher Education resources at: www.imsglobal.org/hed

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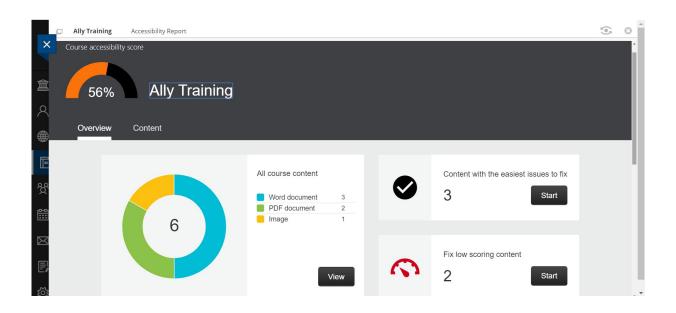
Examples:

- Many live LTI integrations for years
- LTI Advantage implementation just started
    - For our Blackboard system it will allow us to retire a clunky custom process in PeopleSoft that provisions students, faculty, and courses.
    - We will have the ability to deep-link into courseware. Instead of dumping student off at the front door of the courseware from the LMS, you can now send the student directly to the educational content seamlessly.
    - Will allows exchange of assignment, grades, and instructor comments from an assessment tool to the gradebook in Blackboard.

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Examples

LTI Advantage allowed us to integrate our accessibility tool directly with the LMS

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What's Next for KCTCS

- Comprehensive Learner Record pilot
- More LTI Advantage integrations with courseware vendors
- Wider rollout of competency based badges

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Central Piedmont

35 Current LTI integrations with Blackboard

Hosted Solutions Requirements

"For vendors that integrate with the Learning Management Systems, Central Piedmont requires that the hosted solution use LTI-based authentication and authorization."

STATE OF NORTH CAROLINA
Central Piedmont Community College

REQUEST FOR PROPOSAL NO. 88-190097-JE
Offers will be publicly opened: April 23, 2019 at 2:00pm
Issue Date: March 21, 2019

The Future

Discussion and Q&A

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Thank you

- Part 2 will focus on digital credentials and will be scheduled for mid-late February
- Look for our presentation at the Innovations Conference in March 1-4, 2020: www.league.org/inn2020
- Upcoming IMS Global Events www.imsglobal.org/events
  - Digital Credentials Summit: February 11-12, 2020
  - Learning Impact Leadership Institute, May 18-21, 2020