Unlocking Opportunity
with
IMS Open Standards
Digital Credentials Summit
February 2019
Unlocking Opportunity with Digital Credentials

Badge Connect API Empowers Learners

The Talent Continuum
Introduction

• International **non-profit** member-owned **collaborative** focused on **education innovation**

• **Twenty years** in the making with approximately **500** organizational **members** representing K12, Higher Education, Corporate, and Ed-Tech suppliers

• **200 institutional members** educating **17+ million** students in the US alone
IMS Institutional Members are Defining, Adopting and Evolving a Revolutionary Integrated Environment that Enables Better Teaching and Learning

**Digital Credentials & Pathways**
Digital credentials are reshaping the way we think about education and professional development by enabling lifelong learner-control of their evidence-based skills and achievements and supporting the transition to standards-based and competency-based learning.

- Competencies and Academic Standards Exchange (CASE)
- Comprehensive Learner Record
- Open Badges

**Learning Data & Analytics**
Clickstream learning data from all digital resources—available in real-time and viewable using any dashboard—can help inform student success strategies, institutional academic decisions, instructional design, and provides a common data format for research on student learning.

- OneRoster
- Caliper Analytics
- Privacy and Security

**Integrated Assessment**
High-quality innovative digital assessment that is accessible, adaptive, and safeguarded for integrity, complements the teaching and learning process, enabling effective interventions and continuous improvement.

- Question and Test Interoperability (QTI)
- Accessible Portable Item Protocol (APIP)
- Computer Adaptive Testing
- Proctoring Services

**Learning Platforms, Apps & Tools**
Scalable, seamless, and secure integration of all digital content, learning tools, and assessment products into an institution’s digital learning environment is the most effective way to support next generation teaching and learning.

- Educational App Vetting
- Learning Tools Interoperability (LTI)
- LTI Advantage
- LTI Resource Search

**Adaptive Digital Curriculum**
Packaging learning content from different sources and streamlining the management of digital resources saves valuable instruction time and provides greater choice and flexibility that leads to better learning experiences.

- AccessForAll
- Common Cartridge
- EPUB for Education
- OpenVideo
Digital Credentials Ecosystem

- Employers
- University
- Community College
- K12 Districts

Skills Wallet

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IMS Digital Credentials Vision

• **Open**, sustainable standards

• Foundation for an opportunity ecosystem with **skills as a currency**

• **Verifiable** in real-time with a click

• **Shareable and controllable** by the learner

• Valued to signal **formal, informal and employer-based education**
Clear description and enumeration of relevant skills

High quality credentials are being published through Open Badges
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High quality credentials are being published through Open Badges.

Aligned to industry standards.
Open Badges OBv2

• Certified by IMS Global
• Endorsements
• Accessibility
• Multi-Lingual
• Expanded Profiles for Identification
• Change management and version control
Blockchain Verification

• R&D with Blockchain show potentially promising methods to verify issuance, especially when issuer-based verification* is not available

• Verifying authenticity using Blockchain via BlockCerts is planned within IMS’ project groups

• Open standard will be made available for users to verify the authenticity of issued credentials via blockchain

*Open Badge display standard currently provides for real-time verification with the issuer
Badge Connect API

- A learner directs their badges to a favorite certified platform
- An IMS open standard web service in OBv2.1
- Enabling the ecosystem
Aligning Skills in the Ecosystem

Educators manage curriculum, learning outcomes and competencies

Industries and employers manage skills required to perform work roles

Virtually all are managed in a digital information system in a form of skills framework
IMS CASE Standard

Competencies and Academic Standards Exchange
CASE Makes Associations

“Statement 2.1 of Framework A is the same as Statement 3.2 of Framework B”

A data format and connector for exchanging and aligning skill frameworks
CASE Aligns Skills Frameworks

Educator: Capella University

Program: Nurse Education

Outcome 2 Apply assessment and evaluation methods

Framework “A”

Industry Assoc: National League for Nursing

Framework: Core Competencies for Nurse Educators 2.0

Competency 3.0 Use assessment and evaluation strategies

3.1 Uses assessment and evaluation data to enhance the teaching-learning process
3.2 Provides timely, constructive, and thoughtful feedback to learners

Framework “B”

Machine Readable Associations “is same as”
CASE Aligns Skills Frameworks

- Industry Association
  - Industry Skills Framework
- Education Provider
  - Curriculum and Competency Framework
- Digital Credentials
- Employers
  - Position’s Skill Requirements
CASE Aligns Skills Frameworks

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Industry Association

Industry Skills Framework

Curriculum and Competency Framework

Position’s Skill Requirements

Education Provider

Digital Credentials

Employers

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CASE Aligns Skills Frameworks

CASE Network

Industry Association

Industry Skills Framework

Position’s Skill Requirements

Credential Engine

Curriculum and Competency Framework

Digital Credentials

Education Provider

Employers
CASE Network

- Free for any issuer or user of competencies, skills and learning standards worldwide
- A unique identifier for internet and internal access and alignment across frameworks
- Verifiable, trusted source making it easier to support competency-aligned instruction

Contact Bruce Umpstead - bumpstead@imsglobal.org

Click for Open Source CASE project OpenSALT
Skills-Based Credentials Ecosystem
Comprehensive Learner Record

- Employability Skills
- Competencies
- Courses
- Badges, Certificates, Degrees, and Licenses
- Co-Curricular
- Internship, Experiential, and Prior Learning
In 2016 UMUC conducted a Comprehensive Learner Record for 1400 graduate students with excellent results. Case study here

MASTERS OF BUSINESS ADMINISTRATION

Develop and recommend strategies for an organization's sustainable competitive advantage.

- Apply security principles to improve security throughout the system.
- Describe basic models and methodologies of systems life cycle.
- Describe the elements of a maturity model.
- Describe the phases of the system life cycle.
- Interpret and apply concepts of at least one development methodology.
A Portable Skills Wallet

Seamlessly Exchange Digital Credentials in an Open Ecosystem
A Better Resume

Digital ▪ Verifiable ▪ Learner-Controlled
Corporate advisory council for IMS Global digital credentials and related standards, to ensure a seamless, interoperable opportunity ecosystem, removing silos between learning organizations and the workforce.

www.imsglobal.org/talent
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