

Update on Digital Credentials Standards

IMS Europe Technical Meeting
14 October 2020



IMS GLOBAL[®]
Learning Consortium
Better Learning From Better Learning Technology[®]

Vision

Knowledge, Skills, Abilities



Verifiable and Interoperable
Digital Credentials



Opportunities for
Employment and Education



Foundations for Digital Credentials

Comprehensive
Learner Record



Collection of
Achievements

Open Badges



Achievement

Competencies &
Academic Standards
Exchange (CASE)



Skills Framework

IMS Standards Enable an Interoperable Ecosystem

imglobal.org



Open Badges

- World's leading format for digital badges
- Open Badges 2.0 defines:
 - JSON-LD data objects and schema that describe the achievement, criteria, issuer, recipient, *and more*
 - Verification methodology
 - Embedding metadata within the PNG or SVG (a “baked badge”)

OPEN BADGES

Data & Information **Inside**

Alignment	Expiration Date
Badge Criteria	Issued Date
Badge Description	Issuer
Badge Name	JSON-LD
Digital Signature	Recipient
Evidence	Verification



Technical resources:
imglobal.org/ob

General information:
openbadges.org

Open Badges

- Open Badges 2.1 “Badge Connect”
 - REST API
 - Secured with OAuth2
 - Dynamic client registration
- Early adopters welcome!

Technical resources:
imsglobal.org/ob



Open Badges – Current Status

- OB 2.0 is Final
- OB 2.1 is Candidate Final Public
- Workgroup:
 - Supporting early adopters of 2.1
 - Conformance certification available in a few days
 - Extension for Decentralized Identifiers in Open Badges

Technical resources:
imglobal.org/ob





imglobal.org/ob

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INITIATIVES ▾ DEVELOPERS ▾ CERTIFIED PRODUCT ▾

Digital Badges

Open Badges 2.0 (OBv2)

[Member Resources](#) [Public Documents](#) [Background](#)

Summary

Open Badges are information-rich visual records of verifiable achievements earned by recipients and easily shared on the web and via social media. The Open Badges standard describes a method for packaging information about accomplishments, embedding it into portable image files as digital badges, and includes resources for web-based validation and verification. Open Badges describe who earned it, who issued it, the criteria required, and in many cases even the evidence and demonstrations of the relevant skills. The data is all inside! If you are new to Open Badges, check out openbadges.org for a complete primer.

Open Badges 2.0 provides powerful new features such as endorsements, internationalization and multi-lingual capabilities, versioning, improvements for accessibility, and full adoption of JSON-LD. Open Badges 2.0 is in Final status.

Open Badges 2.1 adds a REST-based API to Open Badges 2.0. OB 2.1, often referred to as the Badge Connect™ API, fully inherits the existing OB 2.0 data model. Open Badges 2.1 is now in Candidate Final status and is available for public review, comment and early adoption.

IMS Global is responsible for managing and advancing the Open Badges specification—a vital component of the digital credentials ecosystem. Open Badges 2.x is designed for compatibility and interoperability with the other IMS standards related to digital credentials: [Comprehensive Learner Record](#) and [Competencies and Academic Standards Exchange \(CASE\)®](#).

Public Documents and Resources

- [Open Badges Specification Repository](#)
- [Open Badges Validator](#)
- [Current IMS-certified Open Badges platforms and tools](#)
- [Open Badges Community Forum](#)

Specification Documents

- Open Badges 2.0
 - [OB 2.0 Final Specification](#)

News

- 02 Oct 2020**
[The Pandemic P Overdue.](#)
- 29 Sep 2020**
[Digitary Joins IM Digital Credentia](#)
- 16 Sep 2020**
[New Network to](#)

Specifications

- 11 Nov 2019**
[Open Badges Ve](#)
- 26 Aug 2019**
[Open Badges Ve](#)
- 07 Jun 2018**
[IMS Open Badge](#)

Product Roadmap

- 20 Aug 2020**
[IMS Major Initia](#)
Updated July 20

Tutorials and C



Comprehensive Learner Record (CLR)

- Official record of learning issued by any organization
- Learning achievements of all types (degrees, courses, grades, certificates, skills, Open Badges, more)
- Verifiable and machine-readable
- CLR 1.0 is a data model and REST API
 - Secured with OAuth2; supports both Auth Code and Client Credentials grant types

Comprehensive
Learner Record

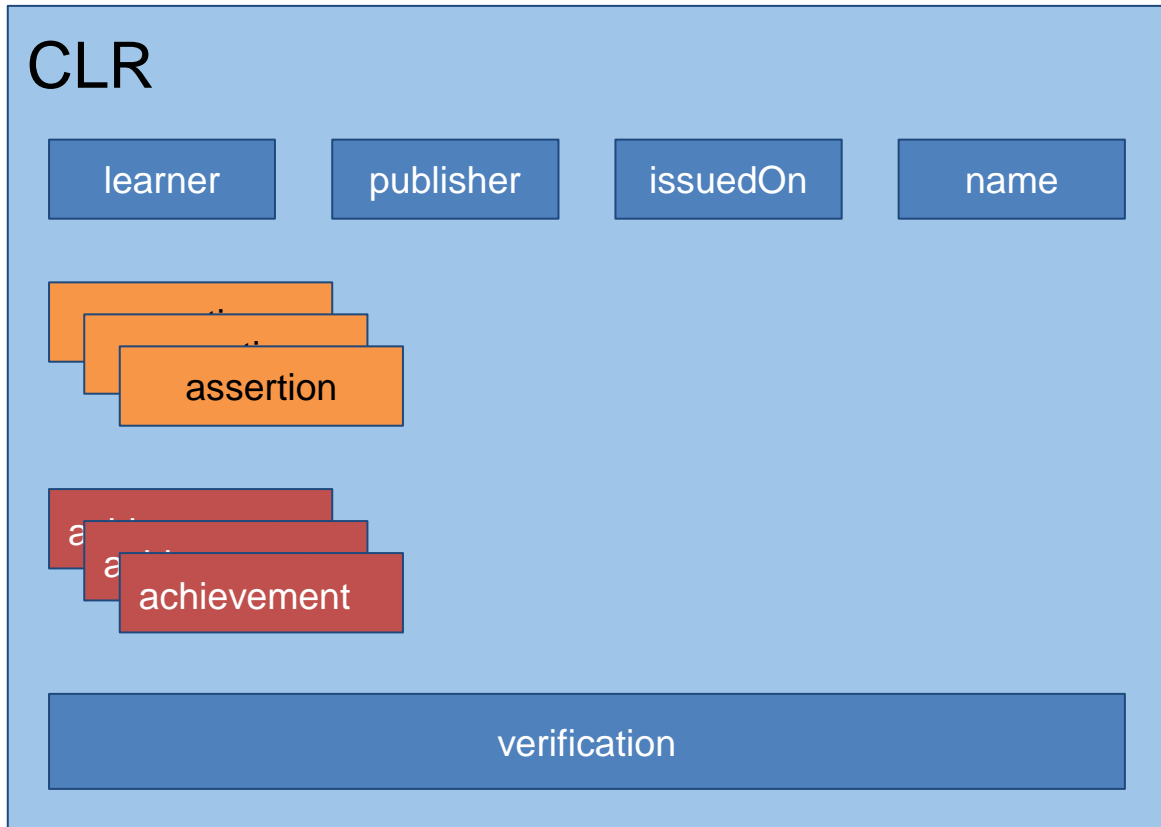


Collection of
Achievements

imglobal.org/clr



CLR Data Model



Learn More:

IMS Developer Video: CLR

How to implement CLR standard

37 minutes

[bit.ly/clr-vid](https://bit.ly clr-vid)

Comprehensive Learner Record (CLR)



The screenshot shows the AACRAO website with a navigation bar containing 'WHO WE ARE', 'EVENTS & TRAINING', 'RESOURCES', and 'RESEARCH & PUBLICATIONS'. The article title is 'AACRAO Issues Guidance for College Registrars and Admissions to Adopt IMS Global Learning Consortium Digital Standard for Learner Records'. The author is 'DR. TOM GREEN' and the date is 'MAY 5, 2020'. There are social media share icons for Facebook, Twitter, Email, and LinkedIn. Below the article title are four tags: 'AACRAO NEWS', 'AACRAO PRESS RELEASES', 'COMPREHENSIVE RECORD', and 'COMPREHENSIVE LEARNER RECORD'. The article text begins with 'Washington, D. C. - The American Association of Collegiate Registrars and Admissions Officers (AACRAO) has issued guidance to its members to adopt the IMS Global Learning Consortium (IMS Global/IMS) standard for Comprehensive Learner Record projects and products. Since 2015, a growing number of colleges and universities have developed and implemented new forms of digital student records, Comprehensive Learner Records (CLRs). Developed largely as models or institutional innovations, to date, these CLRs are unique to each creator. While innovative, differences in technical format reduce the usefulness of these records when students seek to transmit their contents to employers or other higher

Comprehensive
Learner Record



Collection of
Achievements

imglobal.org/clr



CLR 1.0 Early Adopters

- Indiana University
- Johns Hopkins University
- Univ. of Maryland Baltimore County
- Western Governors University
- Broward County Public Schools
- Edina Public Schools
- North Dakota DPI
- AEFIS
- Core Learning Exchange
- ELocker
- Greenlight Credentials
- iDatafy / SmartResume
- Paradigm
- Peridot / LearnersEDGE
- Public Consulting Group
- Teacher Wallet by RANDA



Product Certification

PRODUCT DIRECTORY

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

Certified 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 certified product listed here, IMS will work with the supplier to resolve the problem. Non-certified products are also included when app vetting data is available.

IMS GLOBAL®
CERTIFIED
Current Registrations:
imscert.org

19 results discovered in 2ms

STANDARD: OPEN BADGES ⌵ CLEAR ALL

Acclaim v20190925

By Credly

✓ Open Badges v2.0

CERTIFIED PRODUCT VETTED

AEFIS v3.53

By AEFIS

✓ Open Badges v2.0

CERTIFIED PRODUCT VETTED

Badgr v3

By Concentric Sky

CERTIFIED PRODUCT VETTED

IMS STANDARDS

- Caliper Analytics 1
- Learning Tools Interoperability (LTI) 1
- Open Badges 19
 - Open Badges v2.0 19

OPEN BADGE FILTERS

TYPE

- Issuer 17
- Displayer 6
- Host 5

Certifications Available:

- Open Badges 2.0
- Open Badges 2.1*
- CLR 1.0*

*provisional

imscert.org



Thank you

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