

# IMS Enables a Lifelong Learning Ecosystem

Open Standards
Forming a Foundation for Opportunity



# Bringing Together Like-Minded Professionals





## With One Goal in Mind





# Leading to Employment





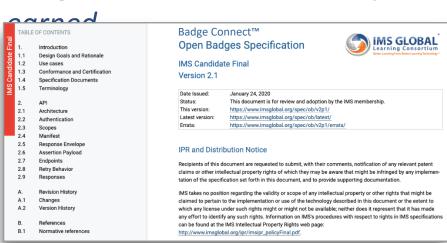
# ...in a Continuum of Lifelong Learning



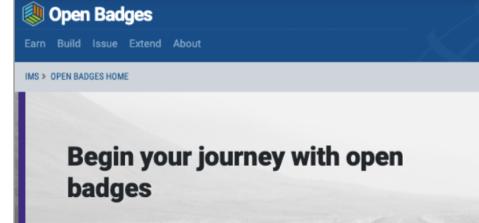


## Badge Connect™ API - a Secure, Federated Badge Ecosystem

Learner/earner selects a preferred host system for all their badges *no matter where they are* 







- √ Share your skills as you earn them.
- J Acknowledge and celebrate talent and growth.
- √ Access crowd-sourced and certified development tools.



As an earner, you can...

As an issuer, you can...

As a developer, you can...

- · Choose the open badge and submit your evidence.
- · Break learning down into small chunks.

· Design verifiable certificates of learning.

#### 1. Introduction 1.1 Status of this Document 1.2 Specification Documents 1.3 Where Can I Get Help? 1.4 Product Directory Listing 1.5 Key Terms and Definitions 2. CLR User Stories and Use Cases 3. Relation to Other IMS Specifications 3.1 CLR and Open Badges 3.2 CLR and CASE 3.3 CLR, QTI and OneRoster **CLR Architecture** 4. **Best Practices** 5. 5.1 Use of JSON-LD 5.2 Security 5.3 REST-based Exchanges 5.4 Verification of CLRs 5.4.1 Verification Process 5.4.2 Signed Assertion Verification 5.4.3 Hosted Assertion Verification 5.4.4 Endorsement Verification 5.4.5 Optional Data Validation 5.5 Rendering CLR as Structured Data

HTML Documents

About this Document

TABLE OF CONTENTS

### Comprehensive Learner Record



## IMS Candidate Final Version 1.0

Date Issued: August 26, 2019

Status: This document is for review and adoption by the IMS membership.

This version: https://www.imsglobal.org/spec/clr/v1p0/

#### IPR and Distribution Notices

Recipients of this document are requested to submit, with their comments, notification of any relevant patent claims or other intellectual property rights of which they may be aware that might be infringed by any implementation of the specification set forth in this document, and to provide supporting documentation.

IMS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on IMS's procedures with respect to rights in IMS specifications can be found at the IMS Intellectual Property Rights web page:

<a href="http://www.imsglobal.org/ipr/imsipr\_policyFinal.pdf">http://www.imsglobal.org/ipr/imsipr\_policyFinal.pdf</a>.

Copyright © 2019 IMS Global Learning Consortium. All Rights Reserved.

Use of this specification to develop products or services is governed by the license with IMS found on the IMS website: http://www.imsglobal.org/speclicense.html.

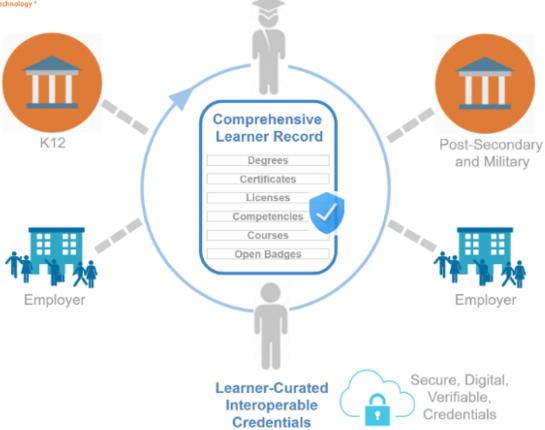
Permission is granted to all parties to use excerpts from this document as needed in producing requests for proposals.

The limited permissions granted above are perpetual and will not be revoked by IMS or its successors or assigns.

THIS SPECIFICATION IS BEING OFFERED WITHOUT ANY WARRANTY WHATSOEVER, AND IN PARTICULAR, ANY WARRANTY OF NONINFRINGEMENT IS EXPRESSLY DISCLAIMED. ANY USE OF THIS SPECIFICATION SHALL BE MADE ENTIRELY AT THE

6.







## Member and Community Resources

### Comprehensive Learner Record (CLR)

### Consumer

Consumer reference implementation.

### **Provider**

Provider reference implementation.

### **Authorization Server**

Authorization Server reference implementation of the OAuth 2 dynamic registration endpoint.

### Wallet

Demonstration consumer application.

### **Open Badges**

### Client

Badge Connect Client (consumer) reference implementation.

### Host

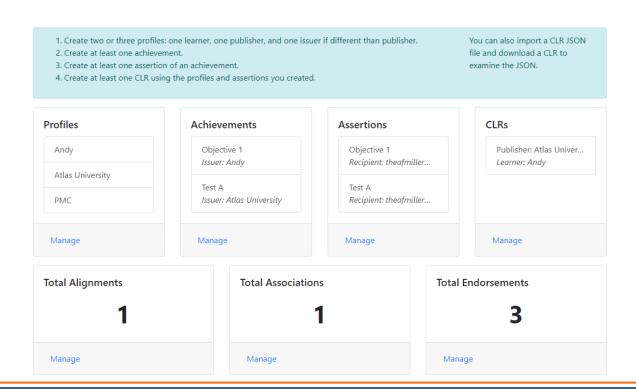
Badge Connect Host (provider) reference implementation.

### **Authorization Server**

Authorization Server reference implementation of the OAuth 2 dynamic registration endpoint.



## CLR Builder/Editor App - Build Your Own CLR...Now!

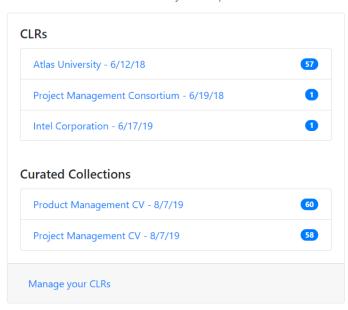


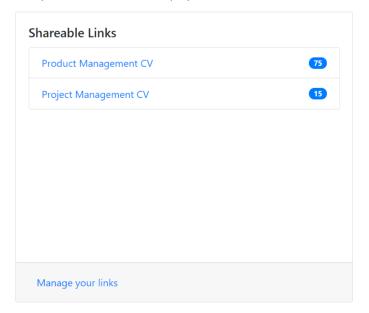


## **CLR Wallet App Proof of Concept**

## Dashboard Demo click

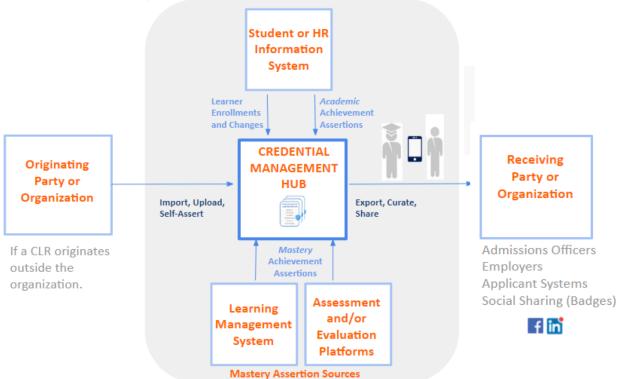
Get your Comprehensive Learner Records from multiple sources. Share them with people.





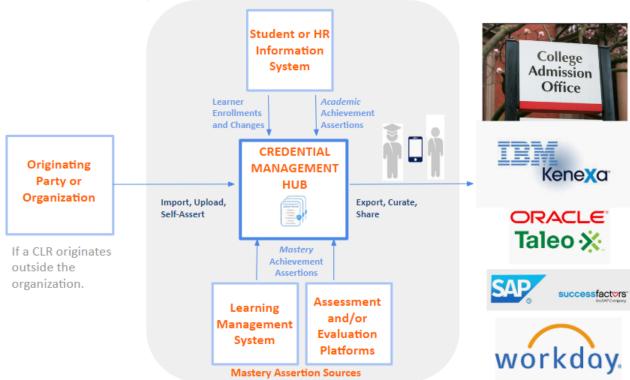


## Organization's CLR Workflow





## Organization's CLR Workflow





## 2020 - A Year for CLR Implementations

- **>** AEFIS
- **→** Paradigm
- ➤ Indiana University
- ➤ Broward County Schools

  /Professional Consulting Group
- ➤ University of Maryland
  Baltimore County (UMBC)

- ➤ Johns Hopkins University
- ➤ Core Learning Exchange
- ➤ Campus Labs
- ➤ Idaho Digital Learning Alliance
- **>**eLumen



## **Expansion of Partnerships and Collaboration**























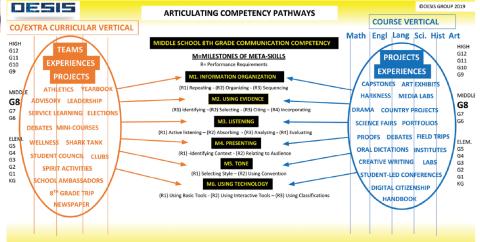
https://www.imsglobal.org/collaborations.html





## **Projects**

Advancing Next Generation K-12 Digital Transcripts Partnership for Interoperable Versatile Open Transcripts





## The Talent Continuum

www.imsglobal.org/talent

**Open Standards for Opportunity** 



## Wellspring

