

# Badge Connect™ API

## Open Badges 2.1

February 2020

# Badge Connect™ API - OB 2.1

## OVERVIEW

- Major enhancement to OBv2 enables convenient user-centric selection of the host system for their badges
- Provides badge recipients the ability to authorize the sending of their badges from one service to another
- Realizes the dream of a federated “backpack” ecosystem!



**BADGE CONNECT™**  
Enables a Federated  
Badge Ecosystem

# Badge Connect™ API - OB 2.1

## SOLVES PROBLEMS

- Eliminates the need for users to manually download then upload badges into a different system
- Open standard API reduces need for proprietary integrations between systems



**BADGE CONNECT**  
Enabling a Federated  
Badge Ecosystem

# Badge Connect™ API - OB 2.1

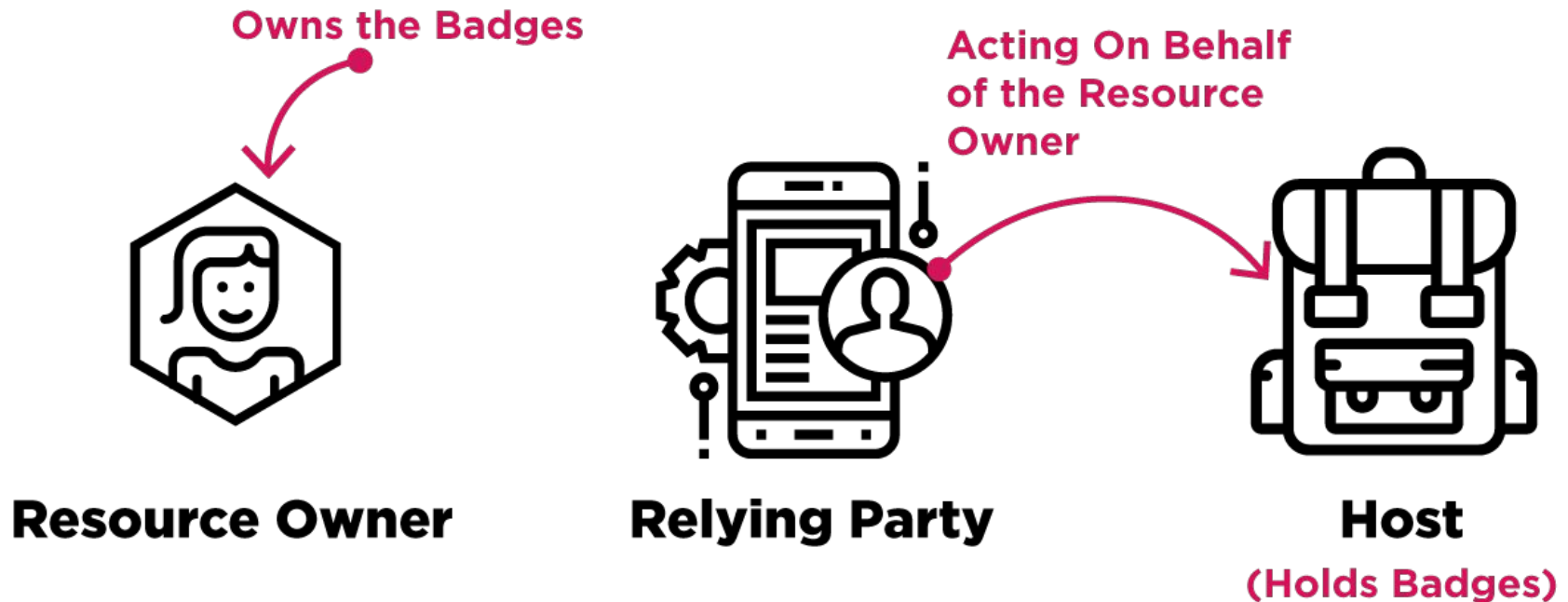
## FEATURES

- Built on OB 2.0 data model which remains unchanged and fully supported
- Adds a **secure RESTful API** to OB 2.0 for transporting badges
- IMS certification will be available to products that **issue, display, and/or host** Open Badges

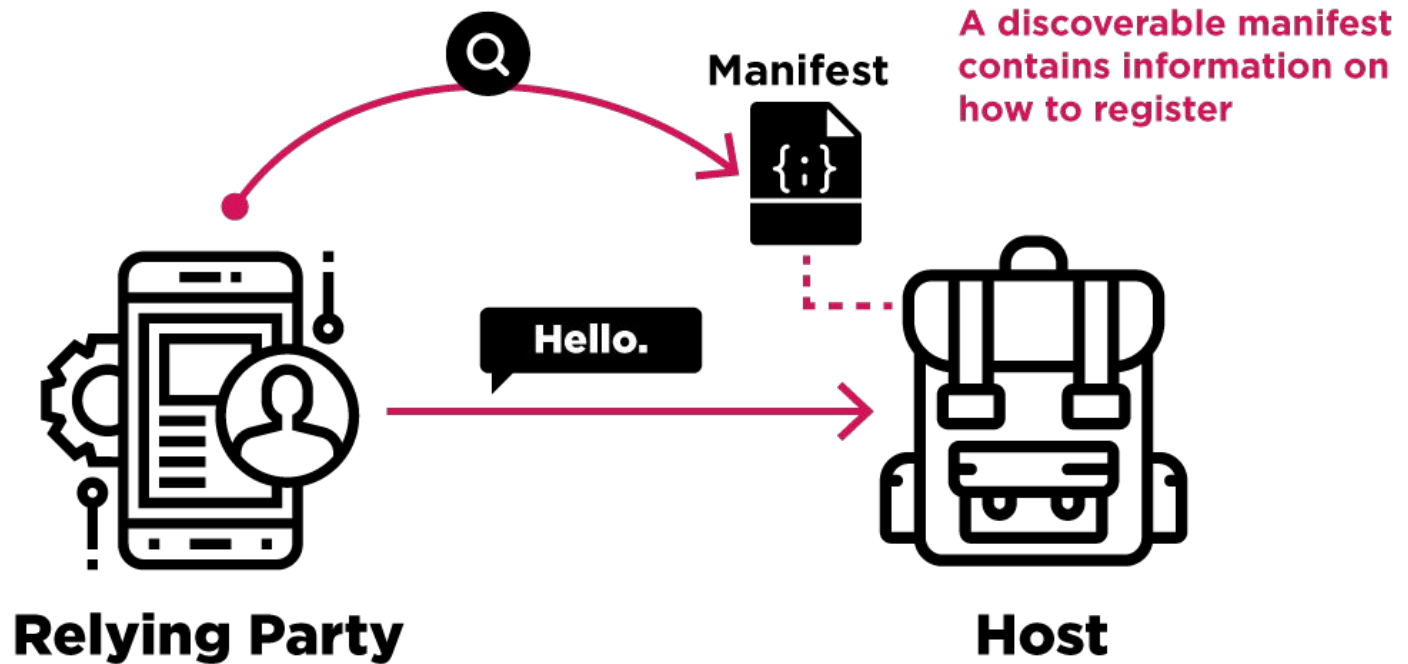


**BADGE CONNECT**  
Enabling a Federated  
Badge Ecosystem

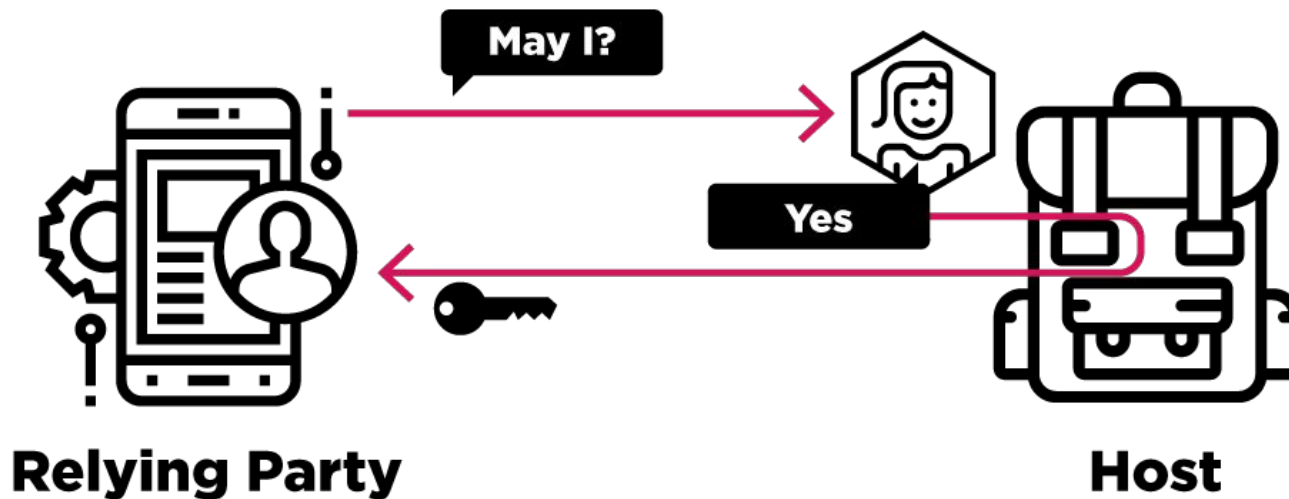
# Simplified: 3 Actors



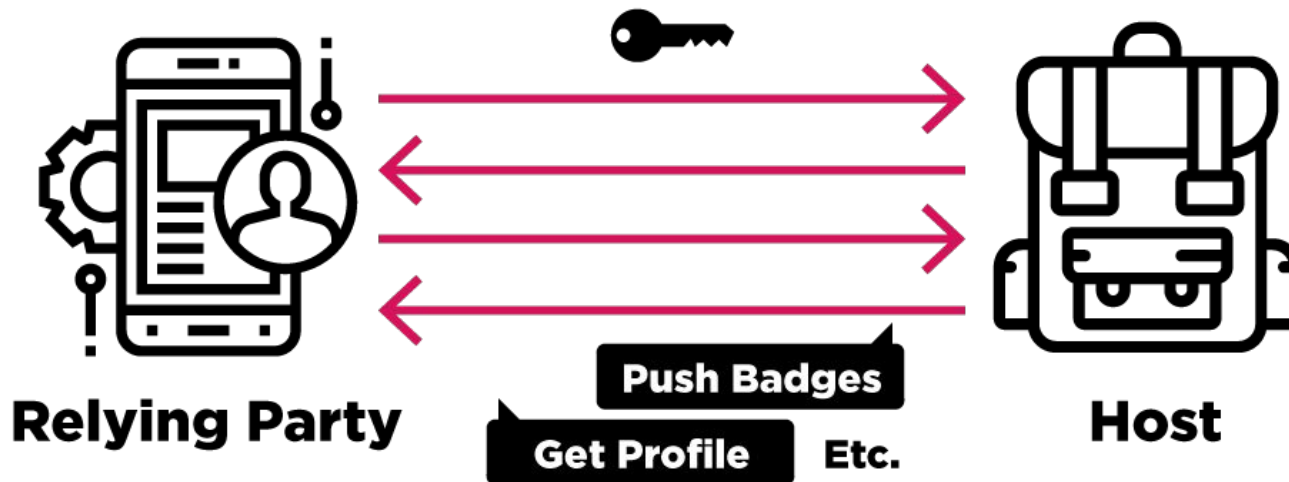
## 1. Relying Party Registers With Host



## 2. Owner Authorizes the Relying Party to Access the Host

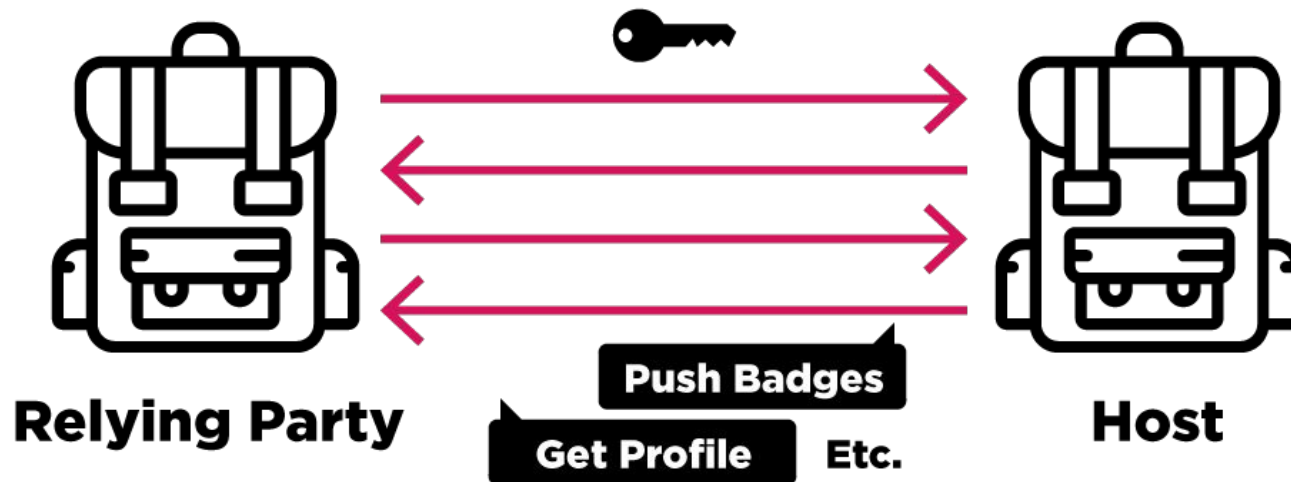


### 3. Relying Party Uses the Authorization to Make API Calls on the Host





## (Relying Parties Can Be Hosts Too)



# Quick Primer on OB 2.0 Roles

## Three Service Roles: **Issuer, Host, and Displayer**

- Issuers award Open Badge Assertions to recipients
- Hosts allow recipients to store and manage the badges they have earned, and decide how they will be shared
- Displayers help learners show off their badges and make sense of them

# User Stories

The following use cases are supported by this specification:

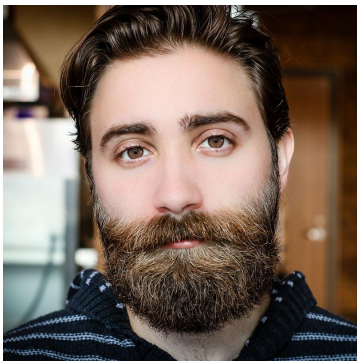
- A recipient of an Assertion wants to import historically-issued badges into a chosen Host from an Issuer platform.
- A user wishes to authorize an Issuer to push awarded Assertions to their chosen Host upon issue.
- A user wishes to connect their Assertions to a recruiting platform.

# User Stories (Continued)

The following use cases are supported by this specification:

- A user wishes to move their badges from one Host to another Host.
- A Relying Party wishes to obtain plaintext recipient identifier, to clearly understand the recipient profile in their badges.
- An Issuer platform wishes to register a new recipient identifier on a recipient profile to which it would award badges.

# Live Demonstration



**Louie Sharpe** is a learner. He is our *Resource Owner*.

He earns badges from a number of issuers along his learning journey. They recognize achievements formal and informal.

Louie wants to store these badges in his Open Badges Backpack and share them easily to services that help him turn badges back into real world value.

He was issued a badge from Badgewell. He has also accumulated badges elsewhere. He will pull from multiple locations into Milestone to display.

Milestone

# Achievement Studio



HOME

WORK

BADGES

SKILLS

COLLECTIONS

GOALS

JOBS

## **Connect Your Backpack** **Where Are Your Badges?**






Enter the Address And We'll Try to Connect

[Go Back to List](#)

Connect




MILESTONE WOULD LIKE TO


-  Know who you are on Badgr
-  View your profile and email addresses
-  Read your Open Badges Assertions

By clicking Authorize, you are allowing this application and Badgr to use your information in accordance with their respective terms of service and privacy policies. You can change this and other account permissions at any time from the Profile menu.

Cancel

Authorize



[Backpack](#)
[Pathways](#)
[Issues](#)


NO

## Backpack


191 BADGES

[Badges](#)
[Collections](#)

☐ Group by Issuer
 

Results Per Page

NEW




**Nice To Meet You Badge**

Nice to meet you!

Feb 12, 2020

Share

NEW




**Doug Attitude**

This badge recognizes that the owner has the Doug attitude. The Doug attitude means being cool, thirsty, attractive, generous....and humble

Feb 7, 2020

Share




**You Rock! Badge**

Inaugural BadgeBot badge! Earners of this badge are being recognized for being awesome.


Oct 17, 2019

Share




**Accessibilty Inspector/Plans Examiner Badge**

The Certified Accessibility Inspector/Plans Examiner shall be responsible for conducting assigned inspections for compliance with Codes and Standards adopted by respective jurisdictions. Tasks include...




**2019 Eugene Tech Tour - Light at Play**

Tech and tech enabled companies from greater Eugene opened their doors and hosted fun networking events for job seekers, tech enthusiasts, and students. The 2019 Eugene Tech Tour showcased the regions...



**2019 Eugene Tech Tour - Concentric Sky**

Tech and tech enabled companies from greater Eugene opened their doors and hosted fun networking events for job seekers, tech enthusiasts, and students. The 2019 Eugene Tech Tour showcased the regions...



**Tech Tour - City of Eugene**

Tech and tech enabled companies from greater Eugene opened their doors and hosted fun networking events for job seekers, tech enthusiasts, and students. The 2019 Eugene Tech Tour showcased the regions...

Personal ✓

Badgr University

Walmart

Banco Interamericano de Desarrollo

Elevate Lane County

VLACS

Profile

App Integrations

Sign Out



[Backpack](#)[Pathways](#)[Issuers](#)[NO](#)

## App Integrations

You've authorized access to your Badgr account for the apps and sites listed below.



### Canvas LTI

Badgr connects with Canvas LTI to automatically award badges to students as they complete modules.

Active



### Milestone

This application has been granted permission to sign you in using your Badgr account.

Authorized: Feb 10, 2020,  
5:25:42 PM

[Revoke](#)

# Badge Connect™ API - OB 2.1

## STATUS

- OB 2.1 is in Candidate Final status and **available now for early adopter IMS members**
- IMS is currently developing the conformance certification test suite
- Timeline
  - Late March: Certification test suite available
  - Q2: First certified products
  - Q2/Q3: TAB vote and Final release



**BADGE CONNECT**  
Enabling a Federated  
Badge Ecosystem

# Badge Connect™ API - OB 2.1

## EARLY ADOPTERS



Badgewell



**badgr**



Campus Labs

**Milestone**



All OBv2 Certified Products

# Badge Connect™ API - OB 2.1

## RESOURCES (for IMS Members)

- Latest version of Candidate Final specification documents
- Reference implementation tools
- Github repository

[imglobal.org/activity/digital-badges](https://imglobal.org/activity/digital-badges)

[dc.imglobal.org](https://dc.imglobal.org) (Reference Implementations)



**BADGE CONNECT**  
Enabling a Federated  
Badge Ecosystem

# Thank You!

## Q & A Time

All OBv2 Certified Products