Table of Contents

[1.1 Overview 2](#_Toc26286567)

[1.2 Design Specification for Backpack settings 2](#_Toc26286568)

[1.3 Create a new OAuth2 service 3](#_Toc26286569)

[1.4 Create & manage the site backpack 5](#_Toc26286570)

[1.5 Design Specification for Open Badges Assertions 5](#_Toc26286571)

[1.6 Design Specification for Open Badges Profile 6](#_Toc26286572)

## Overview

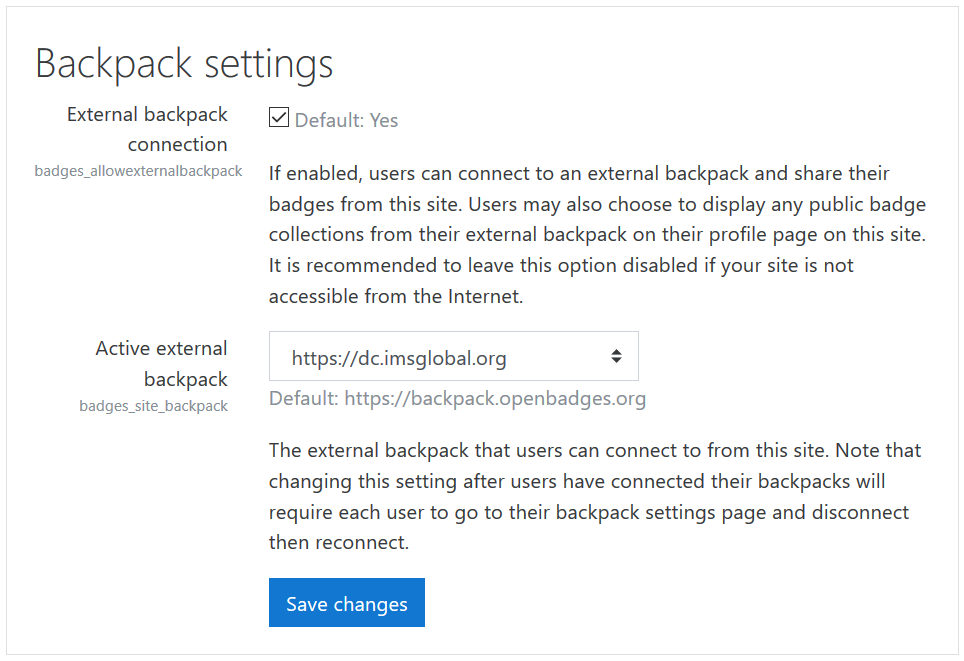
This section of the document will explain how to get started with a relying party application for Badge Connect. Moodle application needs to go through several common processes before the workflows for their specific needs diverge. Here we will explain these steps, including:

1. Backpack (**Host**) Selection: Backpack settings
2. Authorization server: Create a new OAuth2 service
3. Create & manage the site backpack
4. Access Open Badges OpenAPI Assertions
5. Access Open Badges OpenAPI Profile

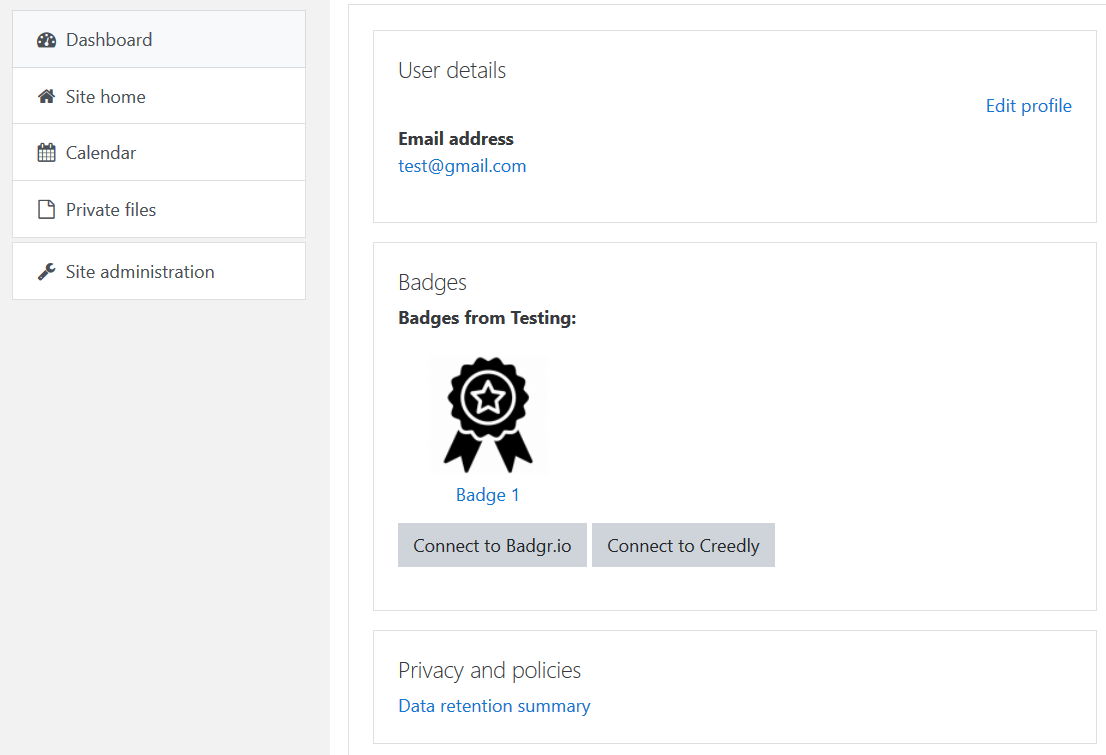
## Design Specification for Backpack settings

In Moodle 3.8 onwards, admin accesses the external backpack service page and manually set up the service provider data, in order to get the client\_id, client\_secret,..

Go to *Site administration > Badges > Backpack settings*



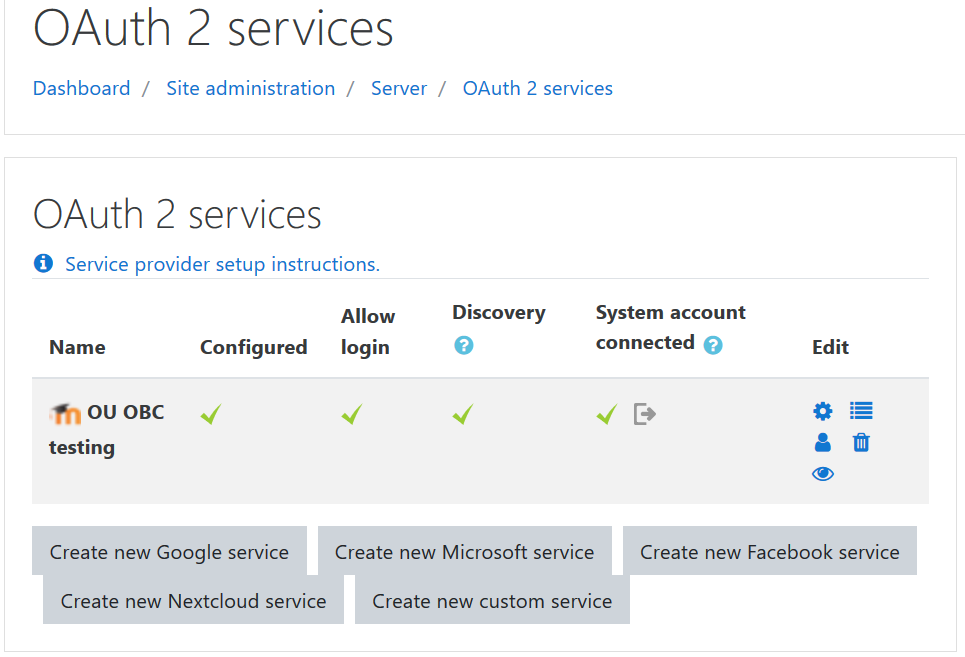
*Figure 1 – Badges 2.1 settings*

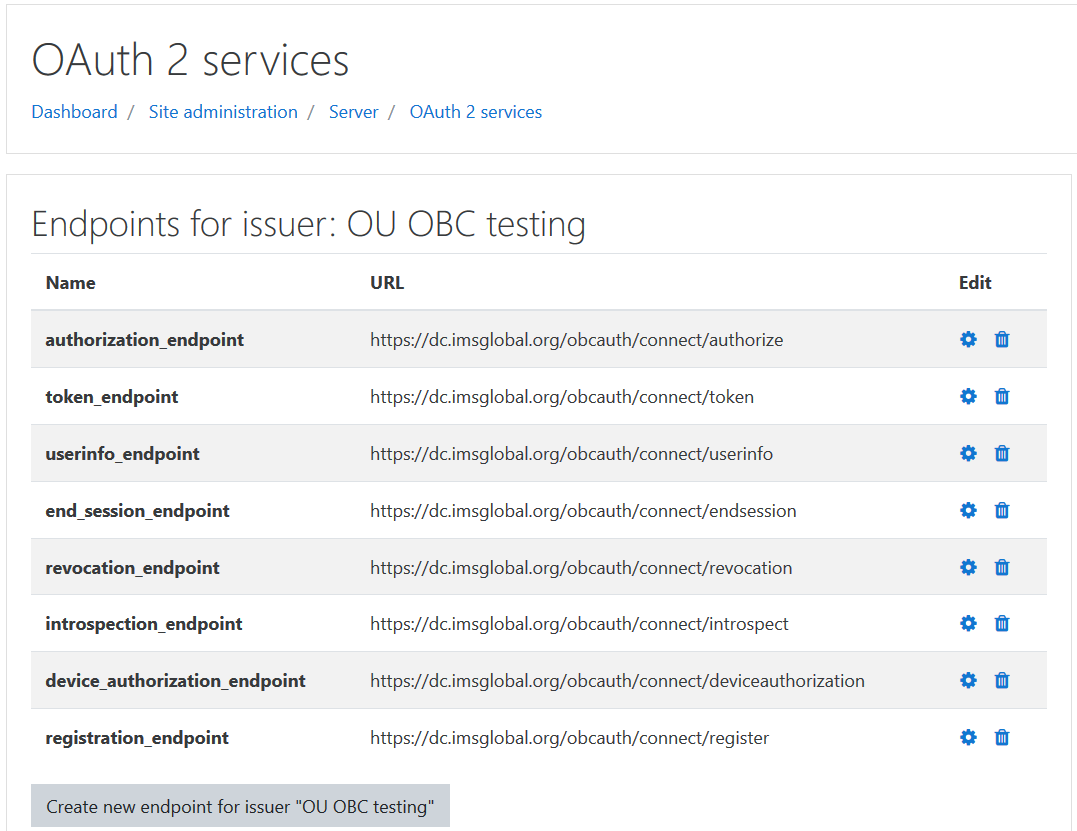
A user log-in in Moodle, they will see the screen to connect their account to this new OBv2.1 backpack. The oAuth2 authorization screen will be displayed (same as happens, for instance, when a user log-in using Google account in Moodle the very first time). If the user authorises it, they should be able to get/send their badges using the GET/POST assertions methods defined by the specification. 

*Figure 2 – Backpack connection*

## Create a new OAuth2 service

The admin goes to "Site administration / Server / OAuth 2 services" and "Create new custom service" (maybe a button for "OB providers" can be added here, instead of using the generic one). For filling up this form, he will need the information got on the previous step





## Create & manage the site backpack

The admin should be able to create a new backpack (from "Site administration / Badges / Manage backpacks"). It has to be linked to the previous oAuth2 service.

The admin should set the new backpack as the default from "Site administration / Badges / Backpack settings". In the future, users will be able to define their preferred backpack (but this will be done in MDL-65959).

Note <https://tracker.moodle.org/browse/MDL-65959> is in development progress

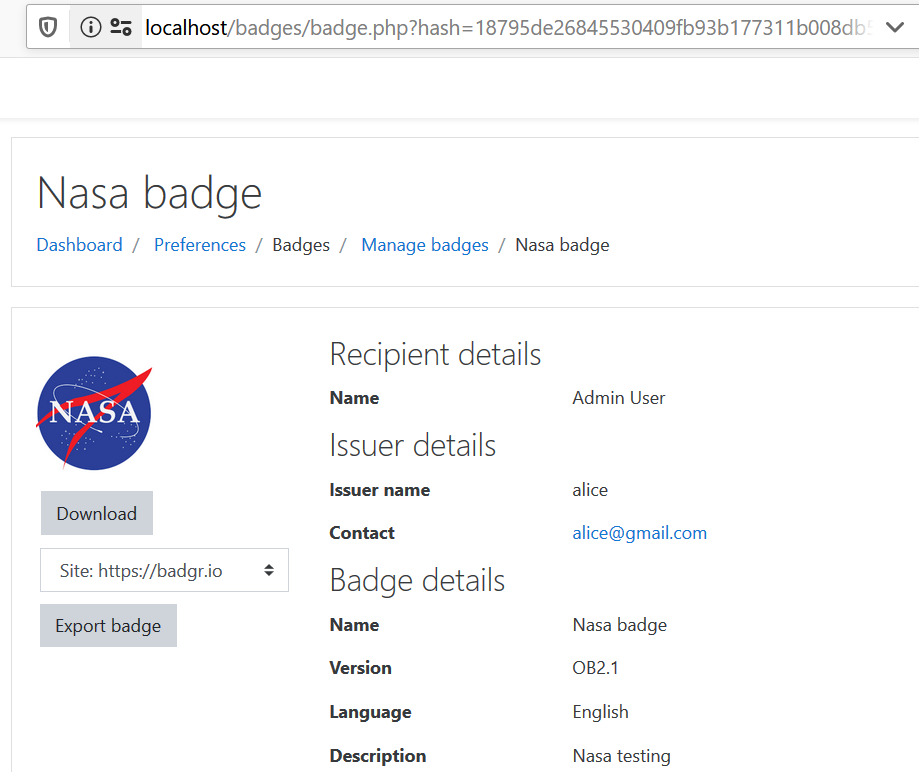
## Design Specification for Open Badges Assertions

* The learner makes a call to the *POST /assertions* endpoint to add the awarded badge to the user’s backpack. The backpack responds with a successful result.
* The learner makes a call to the GET */assertions* endpoint to read the badges in a user’s backpack. The backpack responds with a successful result.
* The Moodle application may now push badges to the user’s backpack at any time.

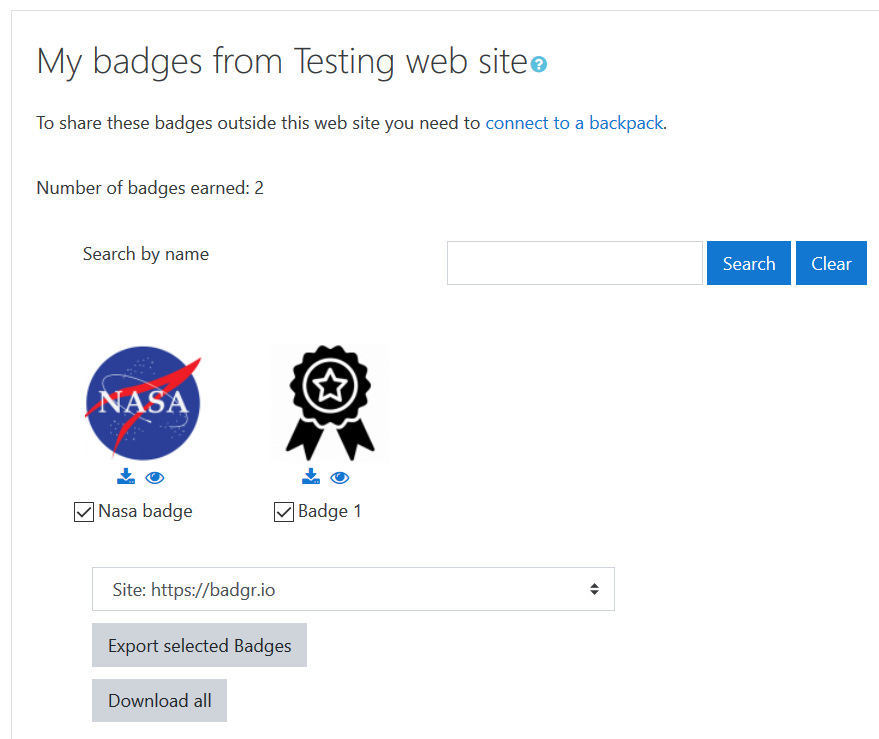
APIs Endpoint

<https://dc.imsglobal.org/obchost/swagger/index.html>

Screen to export a bage



Screen to export multiple-badges



## Design Specification for Open Badges Profile

The Profile defined by OpenBadges is not for the user earning the badge... It's for the issuer: <https://www.imsglobal.org/sites/default/files/Badges/OBv2p0Final/index.html#Profile> . In that case, changes done in [MDL-65456](https://tracker.moodle.org/browse/MDL-65456) might affect this behaviour (so we should be aware of how this issue evolves).

* The learner application makes a call to the *POST /profile* endpoint to add their profile to the user’s backpack. The backpack responds with a successful result.
* The learner makes a call to the GET */profile* endpoint to read the badges in a user’s backpack. The backpack responds with a successful result.
* The Moodle application may now push badges to the user’s backpack at any time.

APIs Endpoint

<https://dc.imsglobal.org/obchost/swagger/index.html>