Open Badges Specification v2.1

Test instruction

# Spec 2.1 – Export badge to external sites

Current state: My badge page accessed via Dashboard/ Preferences/ Badges/ Manage badges is an existing page containing 2 areas - List of internal and external badges

## Create new OAuth2 service

* 1. Register a OAuth 2 service:

Use postman tool to send request look like example:

POST /obcauth/connect/register HTTP/1.1

Host: dc.imsglobal.org

Content-Type: application/json

Cache-Control: no-cache

Postman-Token: f6f54a51-0fc7-55f2-5102-9b877ff2eb6f

{

"client\_name": "Badge OU",

"client\_uri": "http://101.99.45.90/",

"logo\_uri": "http://101.99.45.90/moodle\_test/pluginfile.php/1/core\_admin/logo/0x200/1585558264/logo.jpg",

"tos\_uri": "http://101.99.45.90/",

"policy\_uri": "http://101.99.45.90/",

"software\_id": "13dcdc83-fc0d-4c8d-9159-6461da297388",

"software\_version": "54dfc83-fc0d-4c8d-9159-6461da297388",

"redirect\_uris": [

"http://101.99.45.90/moodle\_test/badges/oauth2callback.php"

],

"token\_endpoint\_auth\_method": "client\_secret\_basic",

"grant\_types": [

"authorization\_code",

"refresh\_token"

],

"response\_types": [

"code"

],

"scope": "https://purl.imsglobal.org/spec/ob/v2p1/scope/profile.update https://purl.imsglobal.org/spec/ob/v2p1/scope/profile.readonly https://purl.imsglobal.org/spec/ob/v2p1/scope/assertion.create https://purl.imsglobal.org/spec/ob/v2p1/scope/assertion.readonly offline\_access"

}

You will get a result:

{

"client\_id": "jdlGDm-Xq1k",

"client\_secret": "bLm\_v-v\_8YI",

"client\_id\_issued\_at": 1586253175,

"client\_secret\_expires\_at": 1617789175,

"client\_name": "Badge OU",

"client\_uri": "http://101.99.45.90/",

"logo\_uri": "http://101.99.45.90/moodle\_test/pluginfile.php/1/core\_admin/logo/0x200/1585558264/logo.jpg",

"tos\_uri": "http://101.99.45.90/",

"policy\_uri": "http://101.99.45.90/",

"software\_id": "13dcdc83-fc0d-4c8d-9159-6461da297388",

"software\_version": "54dfc83-fc0d-4c8d-9159-6461da297388",

"redirect\_uris": [

"http://101.99.45.90/moodle\_test/badges/oauth2callback.php"

],

"token\_endpoint\_auth\_method": "client\_secret\_basic",

"grant\_types": [

"authorization\_code",

"refresh\_token"

],

"response\_types": [

"code"

],

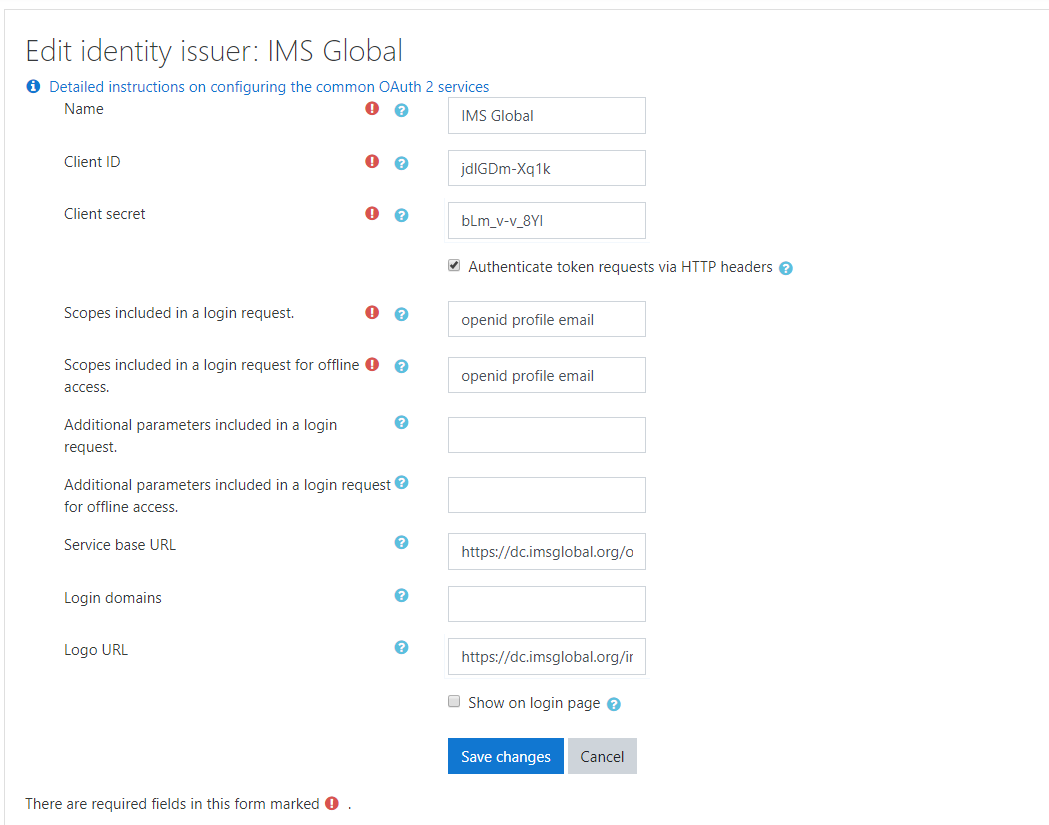
"scope": "https://purl.imsglobal.org/spec/ob/v2p1/scope/profile.update https://purl.imsglobal.org/spec/ob/v2p1/scope/profile.readonly https://purl.imsglobal.org/spec/ob/v2p1/scope/assertion.create https://purl.imsglobal.org/spec/ob/v2p1/scope/assertion.readonly offline\_access"

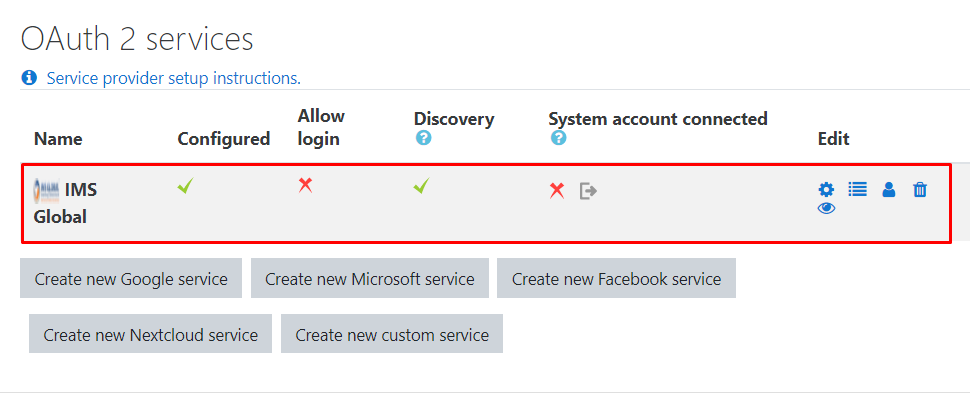
}

## Go to OAuth 2 services via page Dashboard \ Site administration \ Server \ OAuth 2 services

* 1. Create a custom service with Service base URL is https://dc.imsglobal.org/obcauth to connect IMS Global

Use client\_id and client\_secret on step 1 to create a custome service.





## Setup connection to external site

* 1. Go to Manage backpack page via Dashboard/ Site administration/ Badges/ Manage backpacks

Add new backpack to connect API of IMS Global server

Backpack API URL: <https://dc.imsglobal.org/obchost/ims/ob/v2p1>

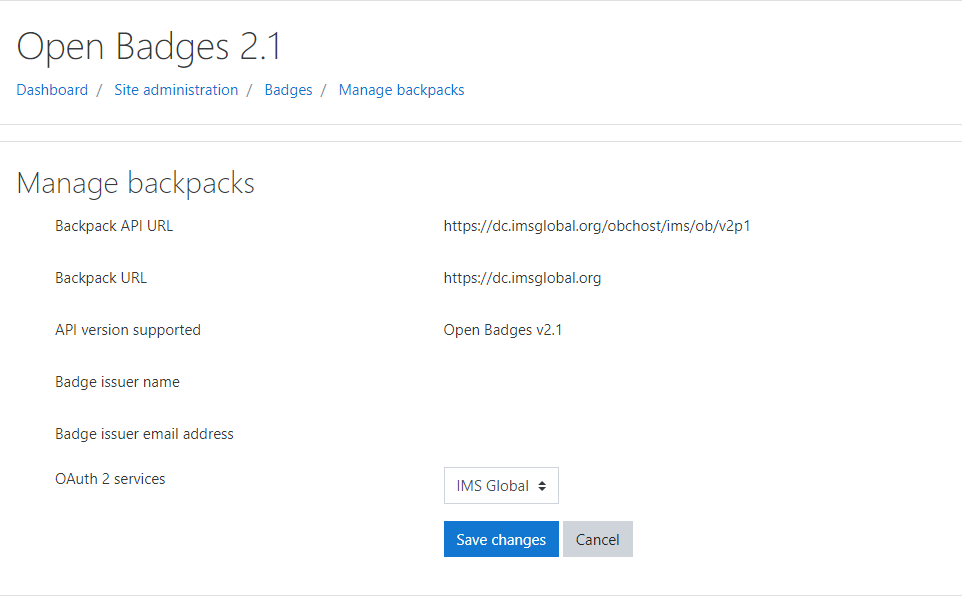
Backpack URL: <https://dc.imsglobal.org>

API version supported: Open Badges v2.1

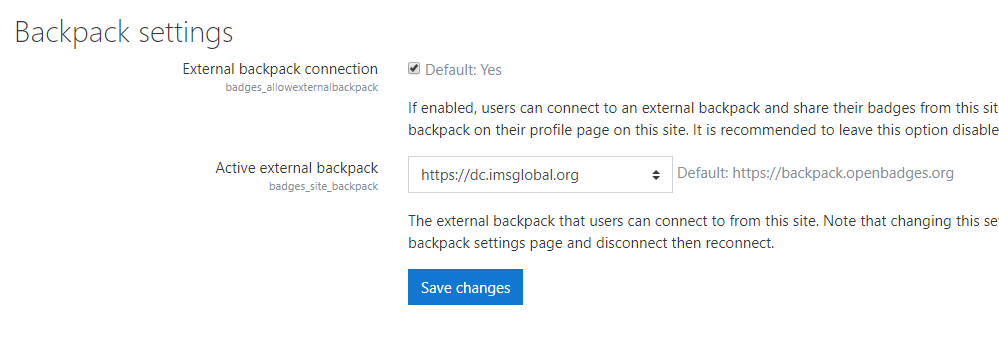
OAuth 2 services: IMS Global

\*Note: Add more backpack to need  [MDL-65959](https://tracker.moodle.org/browse/MDL-65959) is done. To smoke test you can run a query badge\_external\_backpack table on database

SQL query: INSERT INTO public.mdl\_badge\_external\_backpack(backpackapiurl, backpackweburl, apiversion, sortorder, password, oauth2\_issuerid) VALUES (‘https://dc.imsglobal.org/obchost/ims/ob/v2p1’, ‘https://dc.imsglobal.org’, 2.1, 2, null, null);

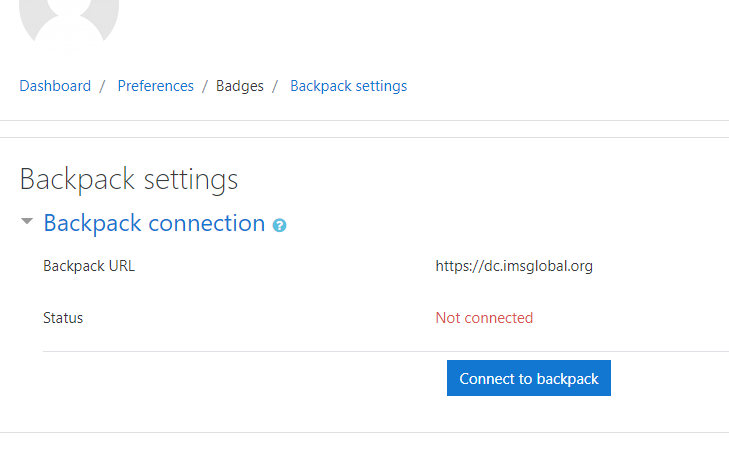


* 1. Go to Backpack settings page via Dashboard/ Site administration/ Badges/ Backpack settings
     + - Active external backpack is <https://dc.imsglobal.org>

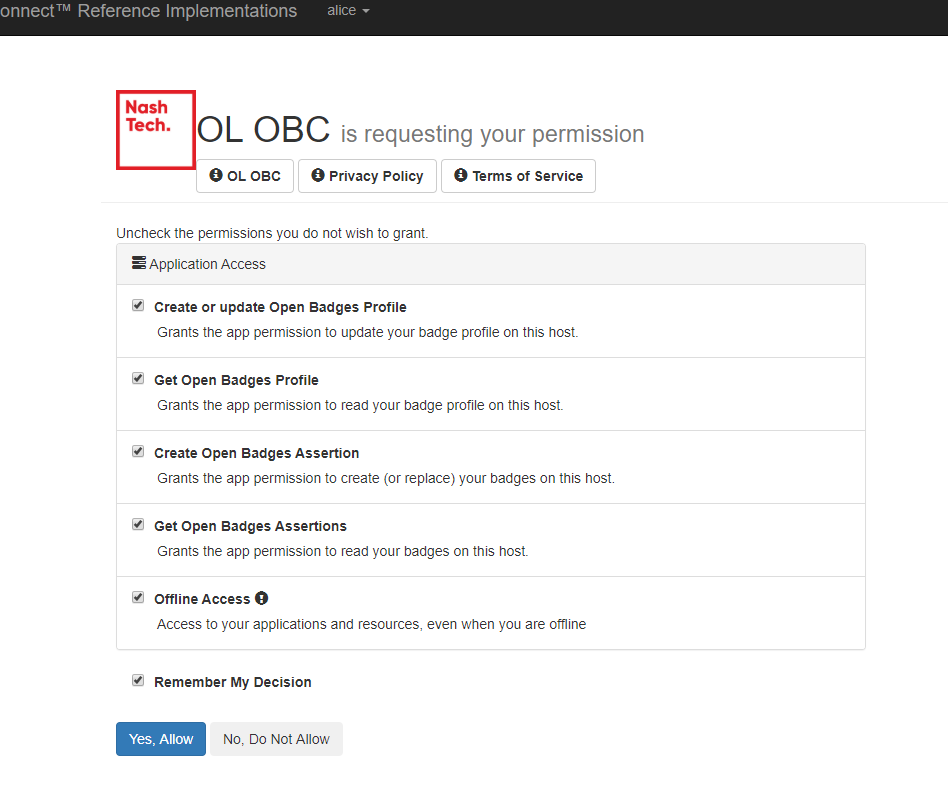


## Connect/ disconnect to backpack site

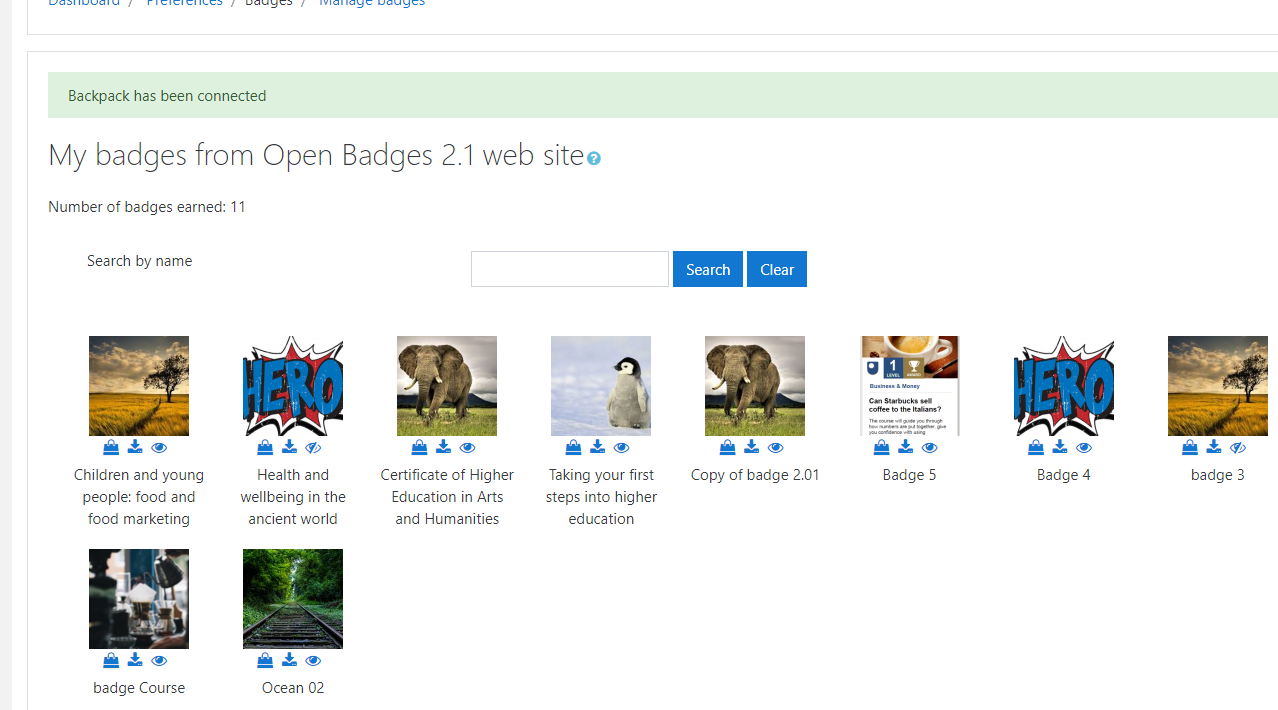
1. Go to Dashboard / Preferences / Badges / Backpack settings
2. Verify connect function
   1. Status is not connected, the button ‘Connect to backpack’ appears



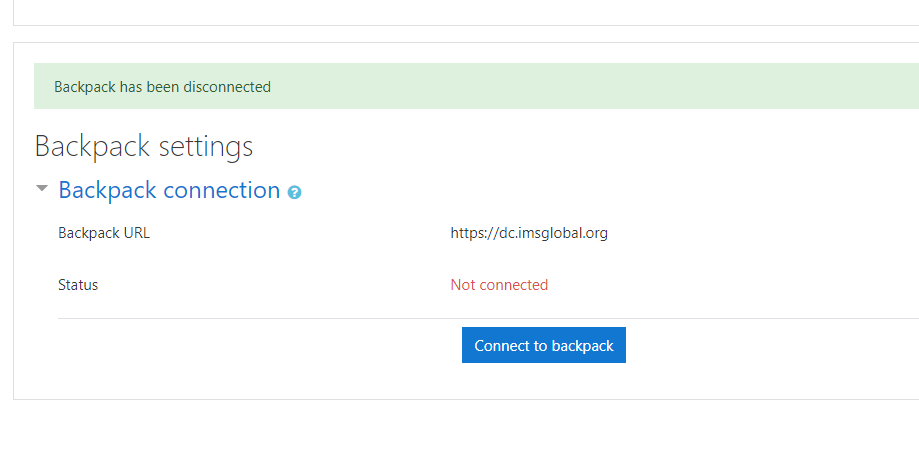
* 1. Click button ‘Connect to backpack’
  2. Redirect to backpack site to confirm scopes



* 1. Verify Connected state:
     1. Message ‘Backpack has been connected’ appears

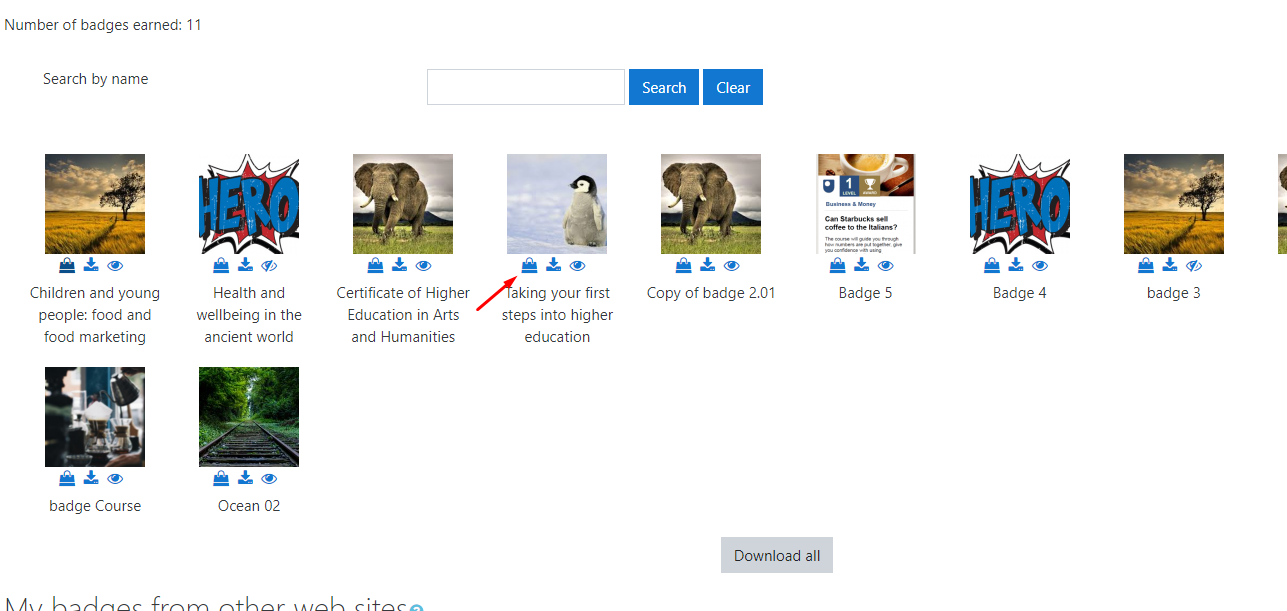


1. Verify disconnect function
   1. If the site is connected to an external site: Status is Connected and button Disconnect appears
   2. Click the Disconnect button
   3. Verify Disconnected state:
      1. Message ‘Backpack has been disconnected’ appears



## Export badge

1. Go to Dashboard / Preferences / Badges / Manage badges
2. Click the basket icon on the badge issued



1. Verify export badge
   1. Message ‘Export [badge name] is successful.’

