



Integrating

Open Badge Factory / CanCred Factory

with Brightspace LMS using LTI 1.3

version	Date	Release note
1.0	2023-02-27	Document issued

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About LTI

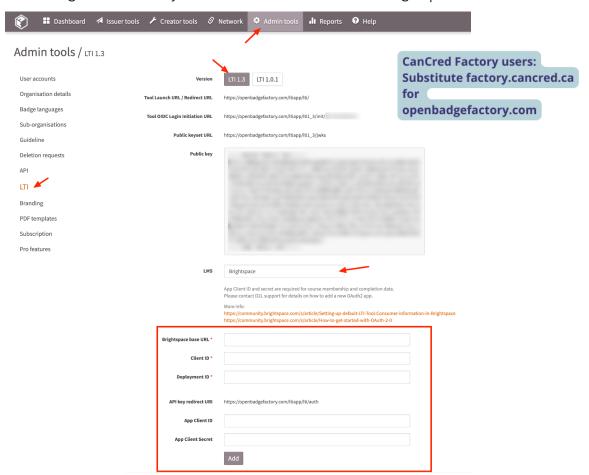
Learning Tools Interoperability (LTI) is a standard developed by <u>1EdTech Consortium</u>, which allows courseware and learning tools from different vendors to be launched within a learning platform, often an LMS.

LTI Integration provides a link between an LTI supported LMS and your account in Factory¹. Our customers can use LTI 1.3 integration with Brightspace. LTI integration requires a Pro subscription level. LTI 1.3 has a more straightforward upgrade path than other versions and the full support and endorsement of major platform providers.

Connecting Factory to Brightspace

Step 1: Register a new LTI 1.3 App

Log in to Factory and go to Admin Tools > LTI. Choose Version: 1.3 and LMS: Brightspace. In this page you can see configuration values you need to connect the tool to Brightspace:



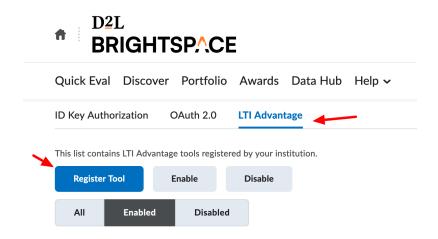
¹ Factory stands for Open Badge Factory or CanCred Factory

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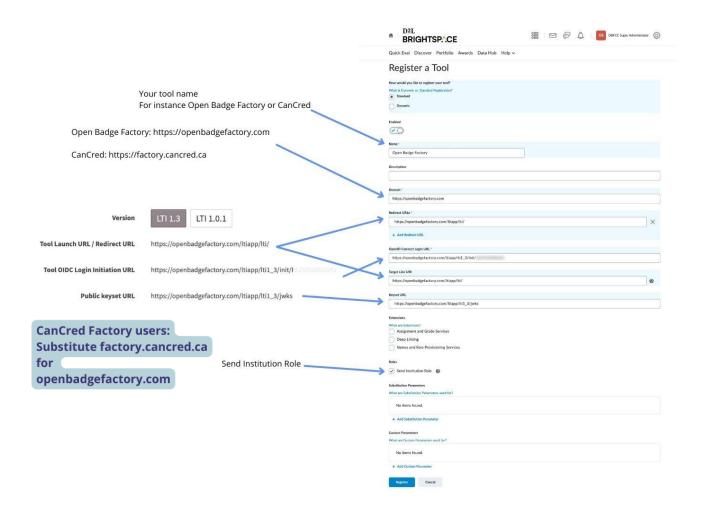




- 1. In Brightspace, go to Admin Tools -> Manage Extensibility -> LTI Advantage
- 2. Click Register Tool:



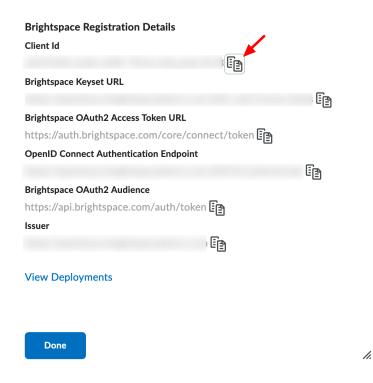
- 3. Choose Standard method
- 4. Set tool Enabled







- 5. Input descriptive value for tool Name
- 6. Input tool domain:
 - For Open Badge Factory: https://openbadgefactory.com
 - For CanCred: https://factory.cancred.ca
- 7. From Factory, copy following values to Brightspace settings form:
 - Tool Launch URL / Redirect URL => Redirect URLs
 - Tool OIDC Login Initiation URL => OpenID Connect Login URL
 - Tool Launch URL / Redirect URL => Target Link URI
 - Public keyset URL => Keyset URL
- 8. Under Roles, enable Send Institution Role
- 9. Click Register
- 10. A popup opens with the registration details for this app. Copy Client Id value for later use.

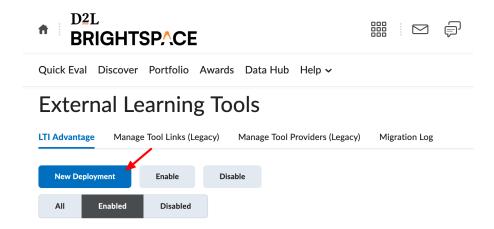


Step 2: Create Tool Deployment

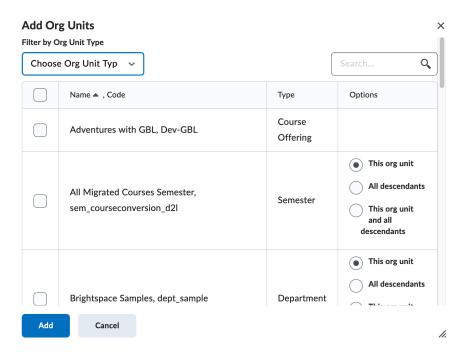
- 1. In Brightspace, go to Admin Tools -> External Learning Tools
- 2. Click New Deployment







- 3. Under Tool, select the tool registered in step 1
- 4. Input descriptive value for deployment Name
- 5. Under Security Settings, enable Org Unit Information and all values in User Information
- 6. Click Add Org Units and select all units (Course Offering, Semester, Department, Organizations etc.) where this tool should be available. If applicable, you can select "This org unit and all descendants":



- 7. Click Create Deployment
- 8. A popup opens with the deployment details. Copy Deployment Id value for later use.

Brightspace Deployment Details

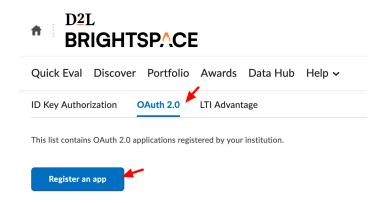




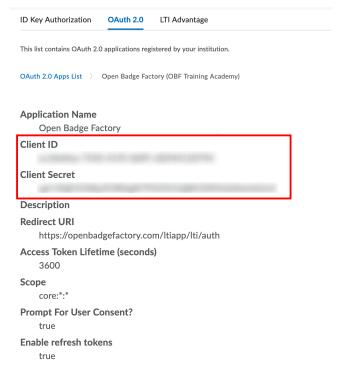


Step 3: Register a new OAuth 2.0 application

- 1. In Brightspace, go to Admin Tools -> Manage Extensibility -> OAuth 2.0
- 2. Click Register an app:



- 3. Input descriptive Application Name (e.g. Open Badge Factory or CanCred Factory)
- 4. Set the Redirect URI:
 - For Open Badge Factory: https://openbadgefactory.com/ltiapp/lti/auth
 - o For CanCred Factory: https://factory.cancred.ca/ltiapp/lti/auth
- 5. Input Scope => core:*:*
- 6. Enable Prompt for user consent and Enable refresh tokens
- 7. Click Register
- 8. Copy Client ID and Client Secret values for later use:







Step 4: Add Tool Deployment to Factory

- 1. In Factory, input the following values to the LTI settings form:
 - a. Brightspace base URL => your Brightspace installation url
 - b. Client ID => Client ID created in step 1.
 - c. Deployment ID => Deployment ID created in step 2.
 - d. App Client ID => OAuth2 Client ID created in step 3.
 - e. App Client Secret => OAuth2 Client Secret created in step 3.
- 2. Click "Add"

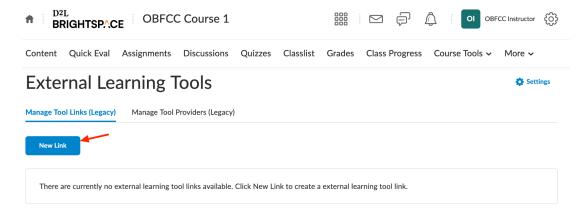




Usage

Add LTI Link to Courses

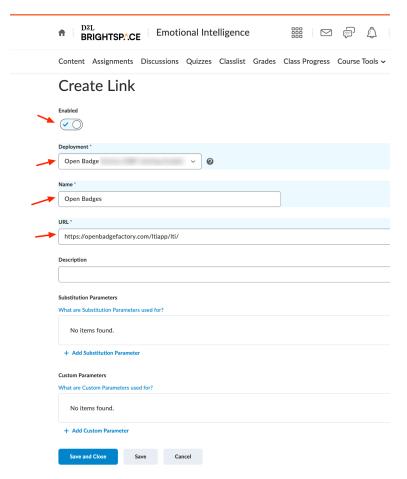
- 1. Go to a Course, click Course Tools -> Course Admin -> External Learning Tools
- 2. Click New Link:



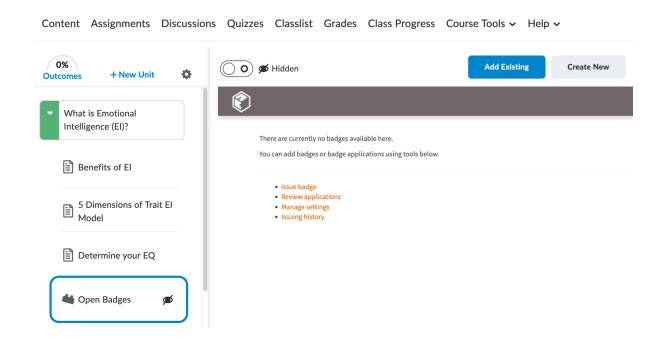
- 3. Select the deployment created in step 2.
- 4. Input descriptive link Name (e.g.: Open Badges)
- 5. From Factory, copy Tool Launch URL / Redirect URL => URL
 - For Open Badge Factory : https://openbadgefactory.com/ltiapp/lti/
 - For CanCred Factory: https://factory.cancred.ca/ltiapp/lti/
- 6. Click Save and Close







- 7. Click the Content link in the top navigation
- 8. Choose a Module and from Existing Activities dropdown, select External Learning Tools
- 9. In the item type drop-down menu, select External Tool.
- 10. Select the Open Badge Factory or CanCred Factory external tool and review the settings





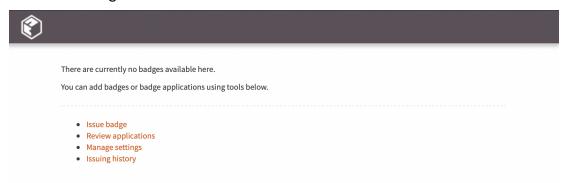


<u>Important</u>: some browsers and/or Brightspace may not accept iframes. You may have to edit your course link property to: "Open as External Resource":

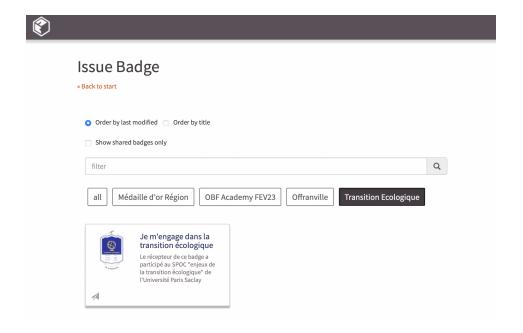


Issuing a badge to course participants

- 1. In Brightspace, from your Course, from the External Learning Tool link created in the previous step
- 2. Click Issue badge



3. Select the badge you want to issue:



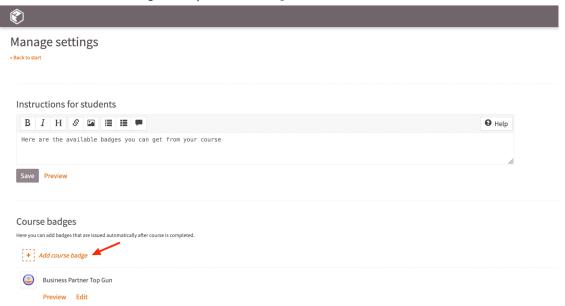




- 1. Define all your badge details
- 2. Select your students
- 3. Edit your email message
- 4. Issue your badge

Issuing a badge automatically on course completion or score

- 1. In Brightspace, from your Course, from the External Learning Tool link created in the previous step, click Manage settings
- 2. Click Add course badge and pick the badge to issue

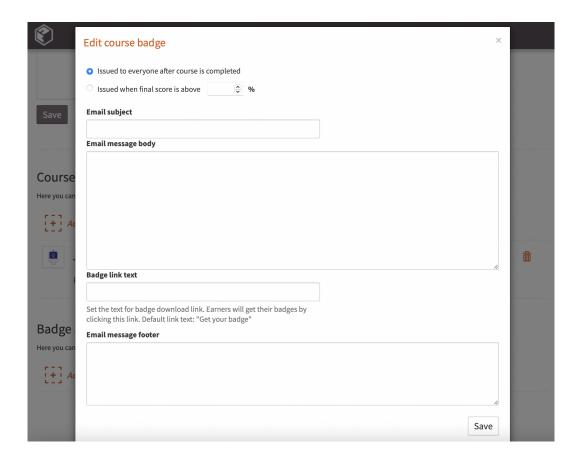


- 3. Click Edit on the badge
- 4. Choose if the badge is issued to all course members after the course completion or based on final score
- 5. Input the email message that is sent when the badge is issued

Please note that course badges are issued periodically once a day after course completions are checked.







Adding badge applications for a course

- 1. In Brightspace, from your Course, from the External Learning Tool link created in the previous step, click Manage settings
- 2. Click Add badge application
- 3. Select the badge application you want to add to the course

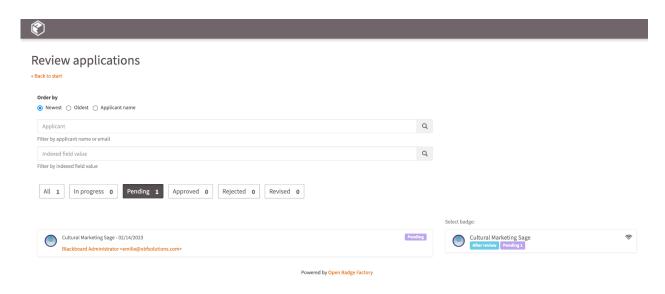






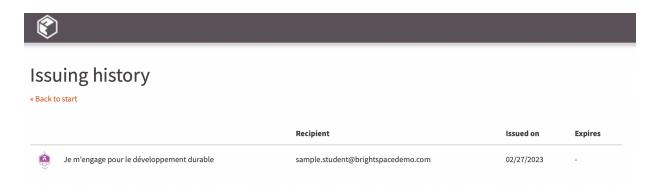
Reviewing badge applications

- 1. In the LTI tool, click Manage settings
- 2. Click Review applications



Issuing history

You can get your issuing history. From your Course, go to Tools > Open Badge Factory > Issuing history:







Student view

Your students can view course badges and badge applications from the course > Tools > Open Badge Factory:

