



CANVAS Pilot - mashme.io Integration Guide 3.8

Introduction

Exchanging sensitive information

Canvas setup

- Prerequisites
- Overall workflow to complete the integration
- Step 1: Developer Keys
 - Procedure and Requirements
 - Create new developer keys
 - Enable the new API key
 - Required information to be saved in order to complete the setup
- Step 2: Register the mashme APP
 - Procedure and Requirements
 - Add a new external app
- Step 3: Adding the app to the Course Navigation
 - Procedure and Requirements
 - Add the app to the course navigation

Testing the integration

- Step 1 - Canvas: create and set up a test course
- Step 2 - Add people to the new course
- Step 3 - Test the integration
- Step 4 - Undo the test

Revoking access to Canvas or mashme

Error codes and their meaning

- {"msg": "Wrong user"}
- {"msg": "Canvas user does not exist on mashme or isn't member a member of SERVICE provider organization"}

Introduction

This document will guide you to set up your Canvas platform in order to be ready for the mashme integration.

Some information required in this process must be provided by mashme prior to the setup.

Please ask the support team to provide those fields before starting the integration.

Exchanging sensitive information

Sensitive information will need to be exchanged between mashme.io and Canvas in order for the platforms to communicate securely. Mashme recommends the use of PGP to encrypt the emails when sensitive information is exchanged.

The person responsible for this integration within your organization will need to exchange the public PGP keys with the identified mashme engineer from the support team.

Here you have useful links to use PGP with [Microsoft Outlook](#), [Mozilla Thunderbird](#) and Gmail.

Canvas setup

Prerequisites

Before beginning the integration, please ensure that you meet these prerequisites:

On the organization side:

- A Canvas admin user is available and able to log into the Canvas platform
- The Canvas admin user is a registered mashme user and is able to manage mashme sessions
- Your organization needs to provide:
 - CANVAS URL
 - Example: <https://syncrtc.instructure.com>

On the mashme side:

- Mashme must provide the following information, please ask the support team.
 - Information is specific to your organization
 - ORGANIZATION ID
 - SERVICE PROVIDER NAME
 - SHARED SECRET
 - Non-specific fields:
 - LAUNCH URL
 - <https://api.mashme.io/lti/launch>
 - XML APP CONFIGURATION

```

<?xml version="1.0" encoding="UTF-8"?>
<cartridge_basictli_link
  xmlns="http://www.imsglobal.org/xsd/imslticc_vlp0"
  xmlns:blti = "http://www.imsglobal.org/xsd/imsbasiclti_vlp0"
  xmlns:lticm ="http://www.imsglobal.org/xsd/imslticm_vlp0"
  xmlns:lticp ="http://www.imsglobal.org/xsd/imslticp_vlp0"
  xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation = "http://www.imsglobal.org/xsd/imslticc_vlp0
http://www.imsglobal.org/xsd/lti/ltivlp0/imslticc_vlp0.xsd
http://www.imsglobal.org/xsd/imsbasiclti_vlp0
http://www.imsglobal.org/xsd/lti/ltivlp0/imsbasiclti_vlp0.xsd
http://www.imsglobal.org/xsd/imslticm_vlp0
http://www.imsglobal.org/xsd/lti/ltivlp0/imslticm_vlp0.xsd
http://www.imsglobal.org/xsd/imslticp_vlp0
http://www.imsglobal.org/xsd/lti/ltivlp0/imslticp_vlp0.xsd">
  <blti:launch_url>https://api.mashme.io/lti/launch</blti:launch_url>
  <blti:title>Mashme</blti:title>
  <blti:description>Access to the Room of the Future</blti:description>
  <blti:extensions platform="canvas.instructure.com">
    <lticm:property name="tool_id">Mashme</lticm:property>
    <lticm:property name="privacy_level">public</lticm:property>
    <lticm:property name="text">Mashme</lticm:property>
    <lticm:options name="course_navigation">
      <lticm:property name="default">disabled</lticm:property>
      <lticm:property name="visibility">public</lticm:property>
      <lticm:property name="enabled">true</lticm:property>
      <lticm:property name="windowTarget">_blank</lticm:property>
    </lticm:options>
  </blti:extensions>
</cartridge_basictli_link>

```

Overall workflow to complete the integration

These are the mandatory steps to complete the integration between both platforms, remembering to exchange sensitive information using a secure channel.

1. Contact the support team to request access to this pilot, you will need to provide
 - The CANVAS URL of your Canvas platform
2. The support team will send you back the following data to perform Step 1 of this guide:
 - ORGANIZATION ID
 - SERVICE PROVIDER NAME
 - SHARED SECRET
3. When step 1 is complete, send back this information to the support team to complete the integration
 - DEVELOPER KEY
 - DEVELOPER SECRET

Step 1: Developer Keys

Procedure and Requirements

This step must be performed by a user with privileges to manage developer keys, usually an admin user but this depends on the policies and set up within your organization.

This step must be completed only once, to setup the communication between Mashme and Canvas platforms.

Create new developer keys

Navigate to:

- Admin
- Developer Keys
- Add Developer Key

The screenshot shows the 'Developer Keys' management page in the Mashme admin interface. The page title is 'Developer Keys' and it is under the 'SyncRTC Inc.' account. The interface includes a sidebar with navigation options like Courses, People, Statistics, Permissions, Outcomes, Rubrics, Grading, Question Banks, Sub-Accounts, Terms, Authentication, Themes, and Developer Keys (which is highlighted). The main content area shows a table of developer keys with columns for Name, Owner Email, Details, Stats, Type, State, and Actions. There are three keys listed: 'MASHME INTEGRATION', 'acanvasprovider', and 'anothercanvasprovider'. Each key has a 'Show Key' button and an 'Access Token Count'.

Name	Owner Email	Details	Stats	Type	State	Actions
MASHME INTEGRATION	No Email	14631000000000000007 Show Key	Access Token Count: 0 Created: Jul 31 at 4:53pm Last Used: Never		ON OFF	Edit Delete
acanvasprovider	No Email	14631000000000000004 Show Key	Access Token Count: 4 Created: Jul 4 at 12:32pm Last Used: 2019-07-04T10:52:25Z		ON OFF	Edit Delete
anothercanvasprovider	No Email	14631000000000000003 Show Key	Access Token Count: 28 Created: Jul 3 at 12:50pm Last Used: 2019-07-09T23:14:05Z		ON OFF	Edit Delete

Fill the new API key form

- Key Name
 - Provide a name to identify this key on Canvas
- Redirect URIs
 - <https://api.mashme.io/auth/serviceproviders/canvas/{{serviceProviderName}}/callback>
 - Replace {{serviceProviderName}} by the name provided by Mashme (SERVICE PROVIDERNAME)
 - Example:
 - <https://api.mashme.io/auth/serviceproviders/canvas/acmecanvasprovider/callback>
- Enable the “Scopes” option
- Select the following scopes to be enabled:
 - Users
 - url:GET|/api/v1/users/:user_id/profile
 - Courses
 - url:GET|/api/v1/courses/:course_id/users
 - Calendar Events
 - url:POST|/api/v1/calendar_events
 - url:DELETE|/api/v1/calendar_events/:id
 - Conversations
 - url:POST|/api/v1/conversations
 - Groups
 - url:GET|/api/v1/groups/:group_id/users
 - url:GET|/api/v1/courses/:course_id/groups
- The rest of the fields are optional for the purpose of this integration

Key Settings

Enable the new API key

Once the API key is created and required scopes are activated:

- Set the “ON” status for the API key

Developer Keys

Account		Inherited				+ Developer Key	
Name	Owner Email	Details	Stats	Type	State	Actions	
MASHME INTEGRATION	No Email	1463100000000000007 Show Key	Access Token Count: 0 Created: Jul 31 at 4:53pm Last Used: Never		ON OFF	Refresh Delete	

Required information to be saved in order to complete the setup

In order to complete the rest of the setup please store the following fields and send them back to the mashme team (remember to exchange this sensitive information in a secure way, our recommendation is PGP encryption):

- DEVELOPER KEY and DEVELOPER SECRET
 - Available by clicking in the “Show key” button on your new API key

Name	Owner Email	Details
MASHME INTEGRATION	No Email	146310000000000007 Show Key

Step 2: Register the mashme APP

Procedure and Requirements

This step must be performed by a user with privileges to manage external applications, usually an admin user but this depends on the policies and set up within your organization.

This step must be completed only once, to setup the communication between mashme and Canvas platforms.

Add a new external app

Using a Canvas Admin account, navigate to:

- Admin
- Settings
- Apps
- View app configurations
- Add app

Change the configuration type to “Paste XML” and fill the form with the following information:

Name

- Provide a name for the application, we recommend “Mashme”

Consumer Key

- Use the ORGANIZATION ID field provided by Mashme

Client Secret

- Use the SHARED SECRET field provided by Mashme

XML configuration

- Use the XML APP CONFIGURATION provided by Mashme

Add App

Configuration Type
Paste XML

Name
Mashme

Consumer Key
123

Shared Secret
123

XML Configuration

```
<?xml version="1.0" encoding="UTF-8"?>
<cartridge_basiclti_link xmlns="http://www.imsglobal.org/xsd/imslticc_v1p0"
  xmlns:lti = "http://www.imsglobal.org/xsd/imsbasiclti_v1p0"
  xmlns:lticm = "http://www.imsglobal.org/xsd/imslticm_v1p0"
  xmlns:lticp = "http://www.imsglobal.org/xsd/imslticp_v1p0"
  xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation = "http://www.imsglobal.org/xsd/imslticc_v1p0
http://www.imsglobal.org/xsd/lti/ltiv1p0/imslticc_v1p0.xsd http://www.imsglobal.org/xsd/imsbasiclti_v1p0
http://www.imsglobal.org/xsd/lti/ltiv1p0/imsbasiclti_v1p0.xsd http://www.imsglobal.org/xsd/imslticm_v1p0
http://www.imsglobal.org/xsd/lti/ltiv1p0/imslticm_v1p0.xsd http://www.imsglobal.org/xsd/imslticp_v1p0
http://www.imsglobal.org/xsd/lti/ltiv1p0/imslticp_v1p0.xsd">
  <lti:launch_url>https://api.mashme.localhost/lti/launch</lti:launch_url>
  <lti:title>Mashme test</lti:title>
```

Cancel Submit

Step 3: Adding the app to the Course Navigation

Procedure and Requirements

This step must be performed by a user with enough privileges to manage courses, usually an admin user or a teacher user, but this depends on the policies and set up within your organization.

This step must be repeated on every course you want to have the mashme app available for both instructors and students.

You can create a Blueprint in Canvas with the mashme app in the navigation alongside other options within Canvas for ease of course management.

Add the app to the course navigation

Login to Canvas using a role with granted permissions to manage courses, navigate to the course where you would like to add the App.

- Settings
- Navigation
- You can enable the mashme app and position it to your preferred placed on the menu.

Testing the integration

Step 1 - Canvas: create and set up a test course

Create a new test course by navigating to:

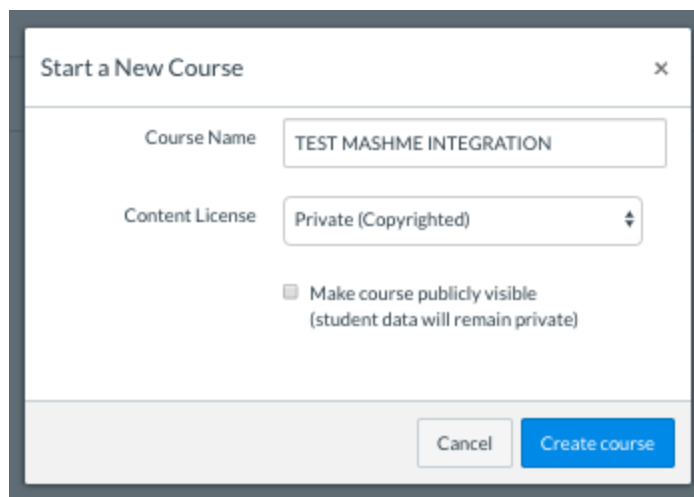
- Courses
- All Courses
- Add course



The screenshot shows the 'All Courses' page in Canvas. On the left is a vertical navigation sidebar with icons for Home, Courses, Add Course, and Search. The main content area is titled 'All Courses' and contains a table with the following data:

Course	Nickname	Term	Enrolled as	Published
★ Economics and Political Science	Economics & Political Science		Teacher	Yes
★ Economics and Political Science	Economics & Political Science		Student	Yes
★ Financial Management			Teacher	Yes
★ History of Art			Student	Yes

Provide a name for the new course, we recommend "TEST MASHME INTEGRATION"



The screenshot shows the 'Start a New Course' dialog box. It contains the following fields and options:

- Course Name:** A text input field containing "TEST MASHME INTEGRATION".
- Content License:** A dropdown menu set to "Private (Copyrighted)".
- Make course publicly visible** (student data will remain private)
- Buttons:** "Cancel" and "Create course".

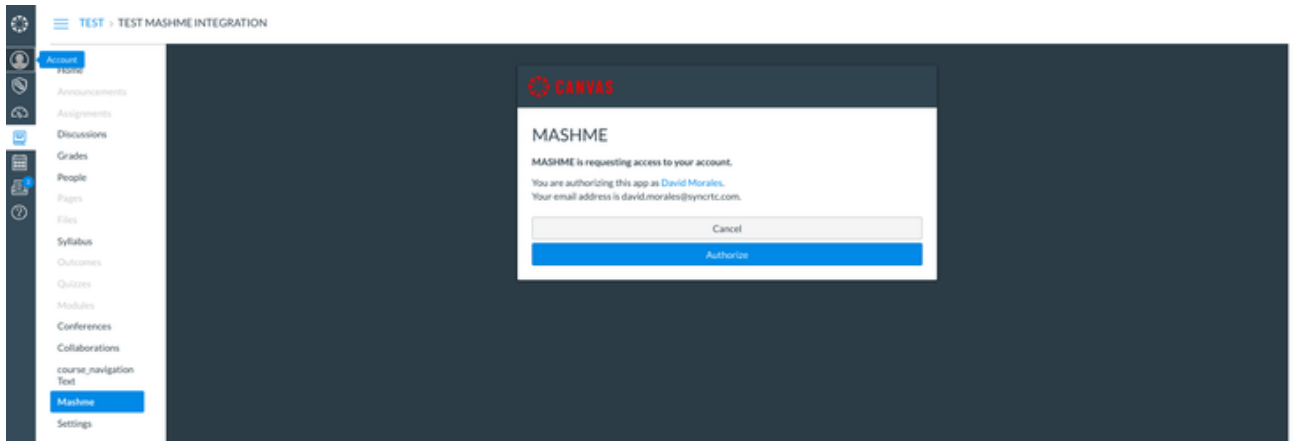
Add the mashme tab to the course navigation by following the steps described in the "Add mashme app" step

Step 2 - Add people to the new course

- Add a teacher to the course, that user must exist in your mashme organization and must have session management permissions
- Add a student to the course

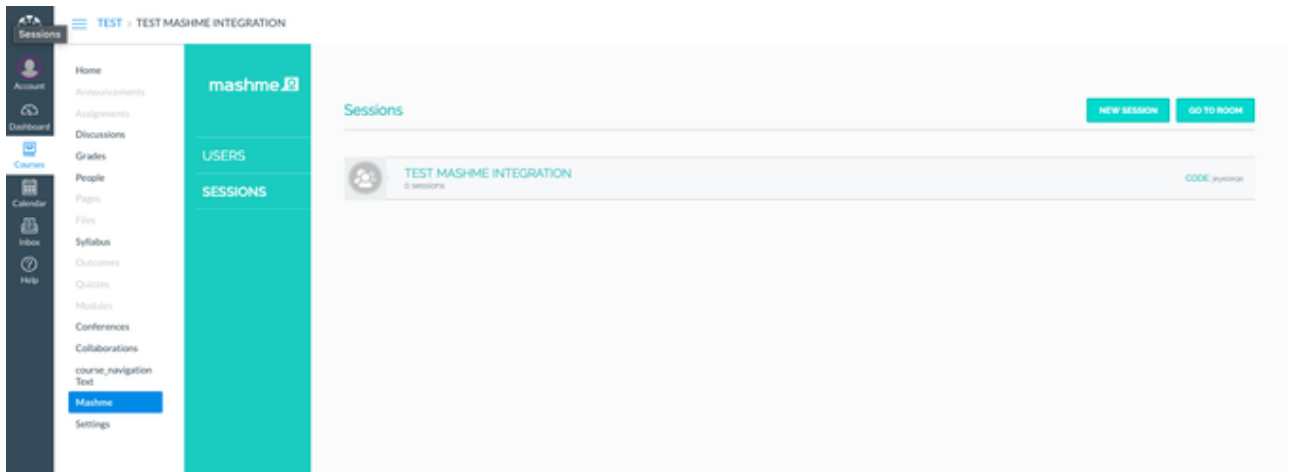
Step 3 - Test the integration

- As the teacher of the new course, access to tab "mashme"



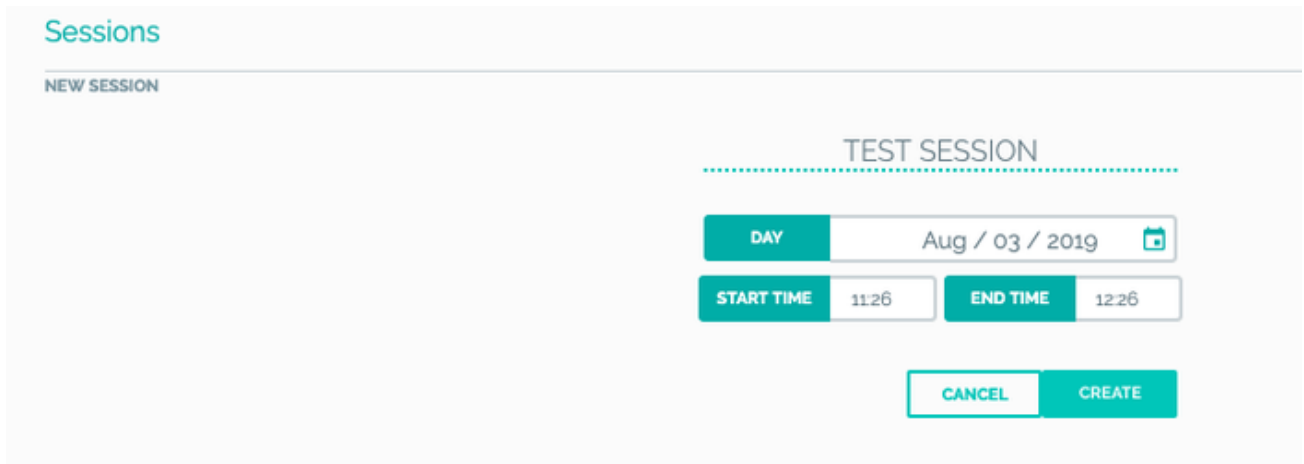
You must see the mashme screen, with a room with the next specs:

- It is named after the Canvas course that you are testing with
- The "USERS" section contains all students that have been added to the Canvas course



Create a new Test Session:

- Back in Canvas app, with the course and mashme tab loaded, click on "NEW SESSION"



Sessions

NEW SESSION

TEST SESSION

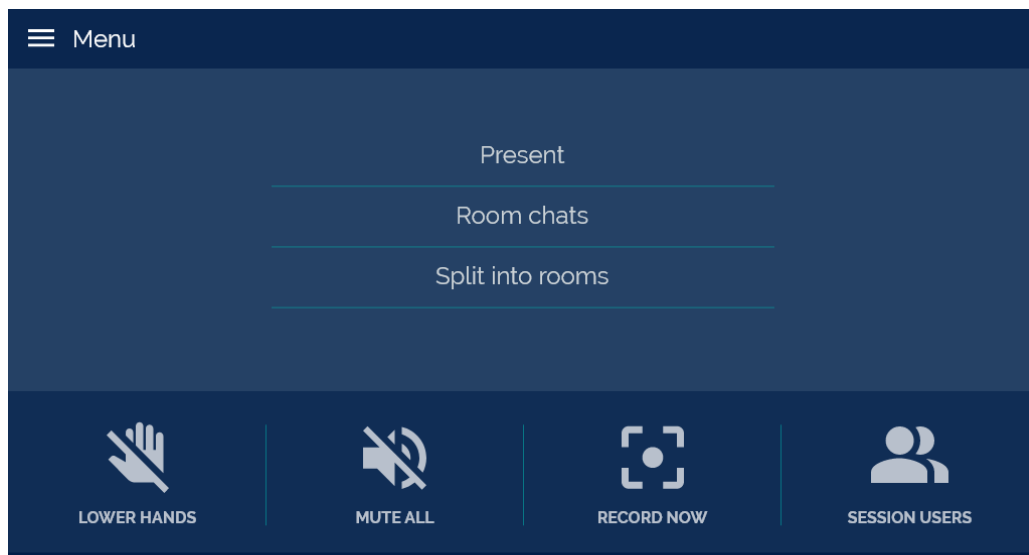
DAY Aug / 03 / 2019

START TIME 11:26 END TIME 12:26

CANCEL CREATE

Check the access to the room

- Back in Canvas app, with the course and mashme tab loaded, click on "GO TO ROOM"
- The system will open a new tab and load the room admin screen.



Check that the new mashme Room attached to the Canvas course has been created on the accounts portal

- Open a new tab on your browser and navigate to <https://accounts.mashme.io>
- Session management
- Check that:
 - A Room must exist with the same name as the Test course
 - The session created earlier is visible in that room

mashme

ACCOUNT SETTINGS
TEAM MANAGEMENT
SESSION MANAGEMENT
ANALYTICS PORTAL

Session Management NEW ROOM NEW SESSION

CURRENT ROOMS

	test room 34 2 members	CODE: hysj8be
	Test 0 members	CODE: wduwepg
	Empty Seats 10 members	CODE: s88z8FTv
	TEST MASHME INTEGRATION 2 members	CODE: w4duygu

MODERATOR | https://sbs.synortc.io/M/FGpZu/hitemap-room_admin | OPEN | COPY

STUDENT | <https://sbs.synortc.io/M/FGpZu/hitemap-student> | OPEN | COPY

TEST SESSION 08 / 03 / 2019 VIEW SESSION

EDIT ROOM NEW SESSION

Step 4 - Undo the test

We recommend to remove the Canvas course and mashme room created during this test.

Revoking access to Canvas or mashme

If you think that the credentials on Canvas or mashme's sides have been compromised, we recommend revoking the access immediately.

Follow these steps to revoke access on Canvas side:

- Navigate to:
 - Admin
 - Developer Keys
- Find the developer key being used by mashme
 - Change the status of the key to "OFF"

Developer Keys

Account		Inherited						+ Developer Key
Name	Owner Email	Details	Stats	Type	State	Actions		
MASHME INTEGRATION	No Email	1463100000000000007 Show Key	Access Token Count: 0 Created: Jul 31 at 4:53pm Last Used: Never		ON OFF	 		

Follow these steps to revoke access on mashme's side:

- Contact the support team to request the revoke of the credentials.

Error codes and their meaning

{"msg":"Wrong user"}

- You are trying to launch the mashme tab in Canvas with a Canvas user that does not correspond to any mashme user.
- You are trying to launch the mashme tab in Canvas with a Canvas user that is registered in mashme but does not have session management permissions.

{"msg":"Canvas user does not exist on mashme or isn't member a member of SERVICE provider organization"}

- You are trying to launch the mashme tab in Canvas with a Canvas user that does not exist in your mashme organization.