



Configuring LTI 1.3 Integrations for the Canvas LMS

For many years, CompuScholar has supported standard LTI 1.0 integrations. To configure a host platform like Canvas with LTI 1.0, district administrators simply need a **Consumer Key** and **Secret Key** provided by CompuScholar. For detailed instructions on LTI 1.0 configuration, please see our Integrations page:

<https://www.compuscholar.com/schools/standards/integrations>

CompuScholar now also offers LTI 1.3 support to take advantage of **Dynamic Registration** and the **Assignment and Grade Services**. Per the LTI 1.3 specification, initial setup is now more complex, requiring a **bi-directional exchange of information** between CompuScholar and the host platform.

This bidirectional exchange of information can happen **automatically** (through Dynamic Registration) or **manually**. Since Canvas supports **Dynamic Registration**, this document describes how to complete this automated setup. Please also see notes on **transitioning** an existing 1.0 integration to 1.3 at the end.

IMPORTANT NOTE:

LTI 1.3 configuration settings for each district LMS platform are stored in CompuScholar's database under your assigned Consumer Key. If you are configuring multiple systems (e.g., a testing system and a production system), you MUST notify CompuScholar in advance and receive separate Consumer Keys for each system. Only one LTI 1.3 configuration instance is supported per Consumer Key.

LTI configuration is a prerequisite for successful integration, but it is not the only step. Integration of CompuScholar's course materials into Canvas is done through the import of a 1EdTech "Common Cartridge". That process is straightforward and is described on our **Integrations** page (see link above). Simply substitute these LTI 1.3 instructions for the LTI 1.0 guidance described in the walk-through video. Please contact CompuScholar to request cartridge(s) for the title(s) you'd like to integrate.



Automatic Configuration through Dynamic Registration - Canvas

The following steps describe Dynamic Registration through Canvas to establish CompuScholar LTI 1.3 at the **site level**. LTI configuration done at the site level can be automatically deployed to all Canvas courses within the site.

CompuScholar will supply a **Consumer Key** and **Secret Key** (used to authenticate the platform during initial setup) and a **registration URL** to automate the process. CompuScholar's registration URL is:

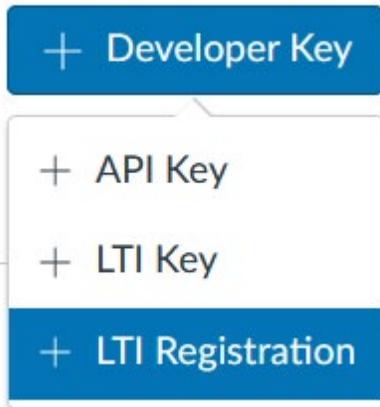
<https://learning.compuscholar.com/lti/register.php>

To set up LTI 1.3 in Canvas at the site level, you must have sufficient **administrative rights** to view the "Admin" panel, manage "Developer Keys", and update account "Settings".

To begin, in Canvas, click on "Admin", then "Developer Keys", then "+ Developer Key".

The screenshot shows the Canvas Admin interface. On the left sidebar, the 'Admin' menu item is highlighted with an orange box. The main content area is titled 'Developer Keys' and has tabs for 'Account' and 'Inherited'. Below the tabs, there is a search bar with a dropdown menu set to 'All', a search input field with the placeholder text 'Search by name, email, or ID', a 'Clear' button, and a '+ Developer Key' button highlighted with an orange box.

From the drop-down, select "+LTI Registration".



In the “Register App” pop-up, enter CompuScholar’s dynamic registration URL and click “Continue”:

<https://learning.compuscholar.com/lti/register.php>

Register App

Dynamic Registration Url

Cancel Continue

On the next screen, you will interact with CompuScholar’s Dynamic Registration service. Enter your district’s assigned **Consumer Key** and **Secret Key** for authentication, then click “Submit”.



Register App

×



CompuScholar LTI 1.3 Dynamic Registration Service

Please enter your district's assigned consumer key and secret key:

Consumer Key	<input type="text"/>	Consumer Key
Secret Key	<input type="text"/>	Secret Key
<input type="submit" value="Submit"/>		

< Back

Cancel

The necessary configuration information will be automatically exchanged, and you should see a "SUCCESSFUL REGISTRATION" message with additional details.



SUCCESSFUL REGISTRATION

Your platform details were added to the CompuScholar database:

client_id: **28041000000000000000**

deployment_id:

auth_login_url: **https://sso.canvaslms.com/api/lti/authorize_redirect**

auth_token_url: **https://sso.canvaslms.com/login/oauth2/token**

auth_server: **https://canvas.instructure.com**

key_set_url: **https://sso.canvaslms.com/api/lti/security/jwks**

Please be sure to activate the CompuScholar LTI configuration within your LMS.

Close this Window

You do not need most of the information displayed in the registration confirmation – the details are shown for diagnostic purposes. However, you will need to **copy the “client_id” value** listed near the top to deploy this new LTI integration to your account settings. The Client ID is also displayed on the admin’s “Developer Keys” screen, if needed.

Click “Close this Window” when done.



On the next page, you are back in the Canvas system. Make sure all permissions are checked, the User's name is shared with the tool, and then click "Enable & Close".

Register App

CompuScholar LTI Settings

[Restore Defaults](#)

Permissions

- Can create and update submission results for assignments associated with the tool
- Can create and view assignment data in the gradebook associated with the tool
- Can view submission data for assignments associated with the tool

User data shared with this tool

User's name only

User fields included: Canvas ID, Name, First Name, Last Name, SIS ID

Placements

This tool has no placements

[Delete](#) [Save](#) [Enable & Close](#)

Confirm on the Developer Keys page that the CompuScholar LTI key is available and has a green check under "State". The "Details" column shows the **Client ID** you will need in the next deployment step, adding the CompuScholar "App".

Account		Inherited				
Name	Owner Email	Details	Stats	Type	State	Actions
CompuScholar LTI	No Email	<div style="border: 1px solid orange; padding: 2px;">[Redacted]</div> Show Key Client ID	Access Token Count: 0 Created: Apr 22 at 10:38am Last Used: Never			



Adding the CompuScholar App to Your Site

Next, you must add the CompuScholar app to your site at the account level so the LTI integration will be available to all courses.

From the **Admin** panel, go to "Settings", click the "Apps" tab, then "View App Configurations".

The screenshot shows the Admin panel interface. On the left sidebar, the 'Settings' option is highlighted with an orange box. The main content area has a navigation bar with 'Apps' highlighted. Below the navigation bar, the 'External Apps' section is visible, with a 'View App Configurations' button highlighted in a grey box.

Assuming CompuScholar LTI is not already in your list of External Apps, click the "+ App" button.

This screenshot shows the 'External Apps' section of the Admin panel. The 'Apps' tab is selected in the navigation bar. A blue button with a white plus sign and the text '+ App' is highlighted with an orange box. To its right is a grey button labeled 'View App Center'.



Change the Configuration Type to "By Client ID", copy in the Client ID value you received during dynamic registration, and click "Submit".

Add App ✕

Configuration Type

By Client ID ▾

Client ID *

🔍

To obtain a client ID, an account admin will need to generate an LTI developer key.

Click the "Install" button on the confirmation pop-up.

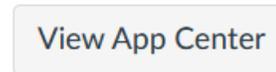
Add App ✕

Tool "CompuScholar LTI" found for client ID . Would you like to install it?



You should now see "CompuScholar LTI" in your list of External Apps.

External Apps



Apps are an easy way to add new features to Canvas. They can be added to individual courses, or to all courses in an account. Once configured, you can link to them through course modules and create assignments for assessment tools.

[See some LTI tools that work great with Canvas.](#)

Name	
Admin Analytics	
CompuScholar LTI	

IMPORTANT - REMOVE learning.compuscholar.com LTI 1.0 APP SETTINGS, IF PRESENT

When importing a CompuScholar course via Common Cartridge, Canvas may automatically add an incomplete LTI 1.0 configuration under Settings → Apps → External Apps called "learning.compuscholar.com".

Course Details Sections Navigation **Apps** Feature Options Integrations

This LTI 1.0 configuration should be **DELETED** at both the **course** and **site** level (wherever it is found) to prevent Canvas from trying to use LTI 1.0 instead of LTI 1.3.

External Apps + App View App Center

Apps are an easy way to add new features to Canvas. They can be added to individual courses, or to all courses in an account. Once configured, you can link to them through course modules and create assignments for assessment tools.

[See some LTI tools that work great with Canvas.](#)

Name	
Admin Analytics	Edit
Canvas Commons	Placements
learning.compuscholar.com	Delete



Transitioning an Existing 1.0 Integration to 1.3

Some existing CompuScholar deployments with an LTI 1.0 integration may wish to transition to 1.3. The main benefit of upgrading to 1.3 is **better status notifications for ungraded items**.

Some CompuScholar homework and chapter activities require manual grading. With LTI 1.0, it is not possible to notify the LMS about items that students have submitted and now need teacher action to complete the grade. With LTI 1.3, that “needs grading” status for submitted items is transmitted to Canvas and is displayed in the Canvas dashboard for convenient teacher notice and access.

To transition an existing installation, simply configure the new LTI 1.3 integration in Canvas as described above. Then, delete your old LTI 1.0 configuration (likely called “learning.compuscholar.com”) from the **External Apps** so Canvas does not continue sending LTI 1.0 requests. Canvas should seamlessly start using the new LTI 1.3 configuration without any further changes.