



## Poll Everywhere & Sakai LTI Advantage Integration Guide for Sakai System Administrators

Version 2.0.0

### Introduction

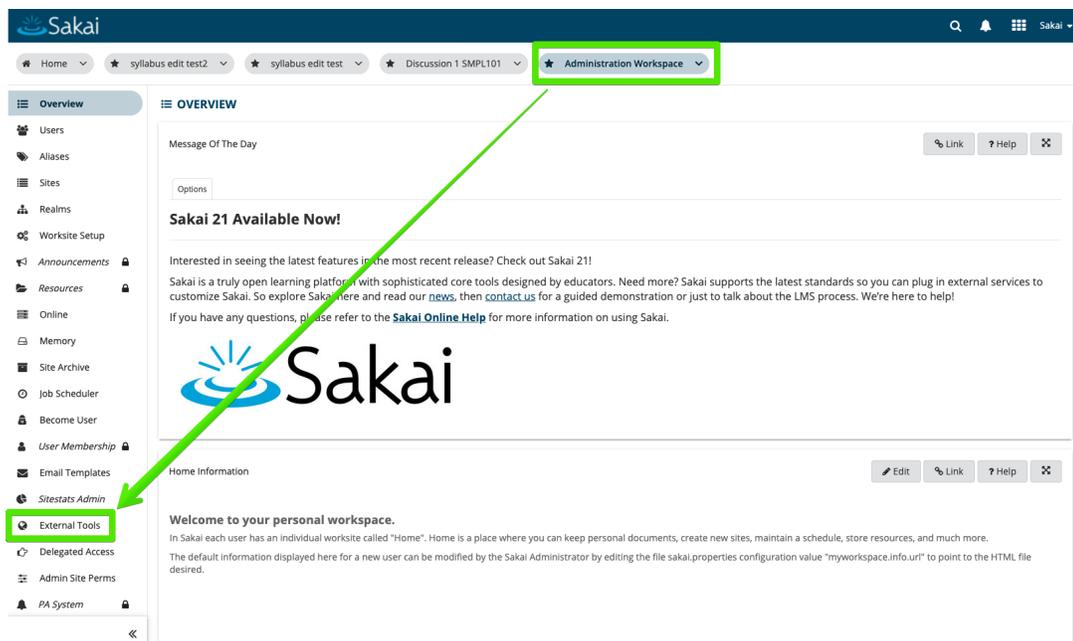
This guide is for Sakai system administrators and describes how to integrate Poll Everywhere with a Sakai LMS system using LTI Advantage.

Sakai must be at version 19.0 or higher in order to use LTI Advantage. The following screenshots were taken from Sakai 21.1.

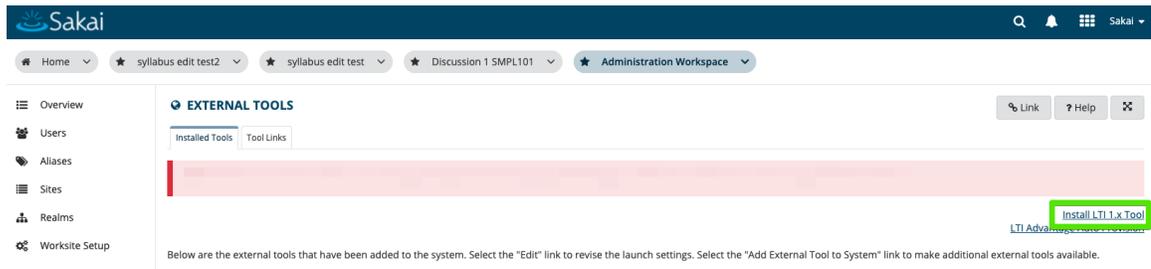
Users who want to manage External Tools must have access to the Administration Workspace. This is only necessary for the Sakai System Administrator who will be performing the initial setup to use Poll Everywhere on the LMS. The individual performing this setup will also need to be an account owner or admin on the university's Poll Everywhere account.

### Create an External Tool

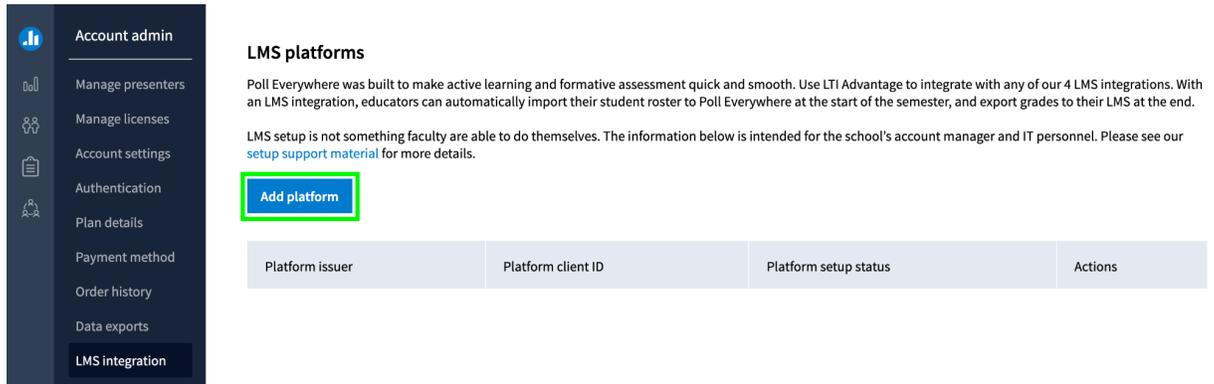
1. Log into Sakai as the Sakai system administrator, navigate to the Administrator Workspace, and select External Tools.



- Click the link in the top right to Install LTI 1.X Tool.



- Open a new browser tab, navigate to PollEverywhere.com, and login with an account owner or admin profile.
- Within your Poll Everywhere account, click on the gear icon in the bottom left-hand corner followed by LMS Integration. Here you will add your LTI 1.3 Platform by selecting Add platform.



- On the next page, select Sakai from the dropdown list of platform options, and Save.

### LMS platforms

Poll Everywhere was built to make active learning and formative assessment quick and smooth. Use LTI Advantage to integrate with any of our 5 LMS integrations. With an LMS integration, educators can automatically import their student roster to Poll Everywhere at the start of the semester, and export grades to their LMS at the end.

LMS setup is not something faculty are able to do themselves. The information below is intended for the school's account manager and IT personnel. Please see our [setup support material](#) for more details.

#### Platform

7. This is the Poll Everywhere LTI 1.3 Platform details page. You will use the information from the first 4 fields of this page to continue the External Tool setup in Sakai.

### LMS platforms

Poll Everywhere was built to make active learning and formative assessment quick and smooth. Use LTI Advantage to integrate with LMS setup is not something faculty are able to do themselves. The information below is intended for the school's account manager

#### Platform

#### Tool OpenID Connect/initialization endpoint [🔗](#)

#### Tool redirect endpoint [🔗](#)

#### Public RSA key [🔗](#)

```
-----BEGIN PUBLIC KEY-----
MIIBjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAWZFK
tPagLVoHxaLoZW+l
KzddIAZMBPorp5Z9u0GO7yKzsUG5TCsa0P+AA8eBTU5FgHwY
+9/k5b81kJ1IEWrk
yNgBD2xmk1yShdwVkp+Y+MOMUgCTfi/O1RqGgj/2FZF0YF7C
```

#### Public JWK [🔗](#)

```
{"kty":"RSA","e":"AQAB","n":"wZFktPagLVoHxaLoZW-
lKzddIAZMBPorp5Z9u0GO7yKzsUG5TCsa0P-
AA8eBTU5FgHwY-9_k5b81kJ1IEWrkyNgBD2xmk1yShdwVkp-
Y-MOMUgCTfi_O1RqGgj_2FZF0YF7C9ZFzVGEoCTsS-
quD7pWlrrav6N22vJ-
jezc0xEvICVY92kavApC9WiYn4bbtQ2BY9Z-
```

#### Public JWKS URL [🔗](#)

#### Issuer

8. Back in the Sakai tab, you will now configure the External Tool with the following values:
- Tool title and Button Text is how your users will identify the External Tool link. You can also add an optional Description.

**EXTERNAL TOOLS**

**External Tool**

Site Id (Leave blank to make tool available in all sites)

\*Tool Title (Above the tool)

Allow tool title to be changed

Choose a custom icon (leave empty to use the default icon)

Allow custom icon to be changed

\*Button Text (Text in tool menu)

Allow button text to be changed

Description

- Ensure that the Tool Status is Enabled, and Tool Visibility is Visible
- Launch URL: <https://www.polleverywhere.com>

**Tool Status**

**Tool Visibility**

\*Launch URL

Allow launch URL to be changed

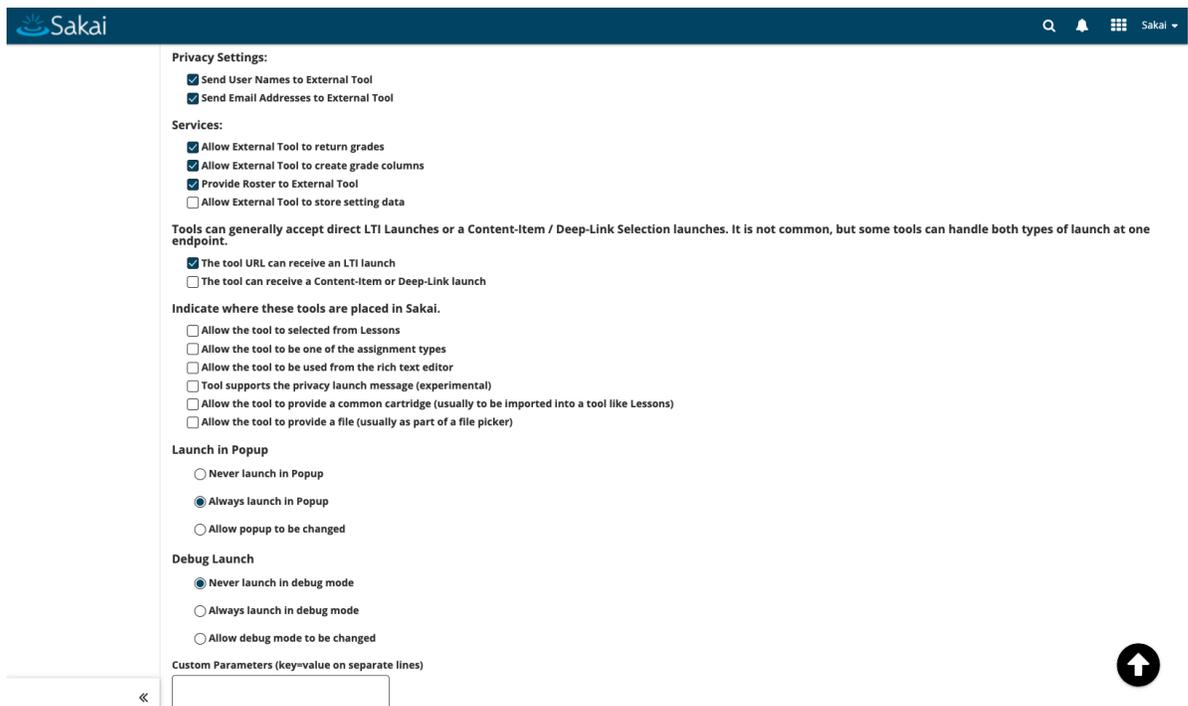
Launch Key

Allow launch key to be changed

Launch Secret

Allow launch secret to be changed

- d. Now, scroll down to the Privacy Settings header, and enable the following options:
  - i. Send User Names to External Tool
  - ii. Send Email Addresses to External Tool
- e. In the Services header enable the following options:
  - i. Allow External Tool to return grades
  - ii. Allow External Tool to create grade columns
  - iii. Provide Roster to External Tool
- f. Allow the tool URL to receive an LTI launch
- g. Always launch in Popup



The screenshot shows the Sakai Privacy Settings page. At the top, there is a dark blue header with the Sakai logo on the left and search, notification, and user menu icons on the right. The main content area is white and contains several sections of settings:

- Privacy Settings:**
  - Send User Names to External Tool
  - Send Email Addresses to External Tool
- Services:**
  - Allow External Tool to return grades
  - Allow External Tool to create grade columns
  - Provide Roster to External Tool
  - Allow External Tool to store setting data
- Tools can generally accept direct LTI Launches or a Content-Item / Deep-Link Selection launches. It is not common, but some tools can handle both types of launch at one endpoint.**
  - The tool URL can receive an LTI launch
  - The tool can receive a Content-Item or Deep-Link launch
- Indicate where these tools are placed in Sakai.**
  - Allow the tool to selected from Lessons
  - Allow the tool to be one of the assignment types
  - Allow the tool to be used from the rich text editor
  - Tool supports the privacy launch message (experimental)
  - Allow the tool to provide a common cartridge (usually to be imported into a tool like Lessons)
  - Allow the tool to provide a file (usually as part of a file picker)
- Launch in Popup**
  - Never launch in Popup
  - Always launch in Popup
  - Allow popup to be changed
- Debug Launch**
  - Never launch in debug mode
  - Always launch in debug mode
  - Allow debug mode to be changed
- Custom Parameters (key=value on separate lines)**
  -

At the bottom left of the settings area, there is a double-left arrow icon. At the bottom right, there is a circular icon with a white arrow pointing upwards.

- h. Scroll down to the LTI 1.3 settings, and select: Tool supports LTI 1.3
- i. Copy the values from the Poll Everywhere Platform page into the correct fields into the Sakai External Tool setup. You can use the copy link icon next to each field for easy transposing.
  - i. (Poll Everywhere) Public JWKS URL > (Sakai) LTI 1.3 Tool Keyset URL.  
**NOTE:** For Sakai v20 and later you will need to add `.jwks`` extension to the end of this URL after pasting into Sakai.
  - ii. (Poll Everywhere) Tool OpenID Connect/initialization endpoint > (Sakai) LTI 1.3 Tool OpenID Connect/Initialization Endpoint
  - iii. (Poll Everywhere) Tool redirect endpoint > (Sakai) LTI 1.3 Tool Redirect Endpoint(s)

The screenshot shows the Sakai External Tool configuration interface. At the top, there is a header with the Sakai logo and navigation icons. Below the header, there are two text input fields for role mapping and splash screen configuration. The main section is titled "If you select LTI 1.3 support while inserting a tool, after the tool is saved, you will be presented the Sakai configuration information information to copy back to the tool. You can view this information in the tool view screen if you edit the tool information." This section contains three radio buttons: "Tool does not support LTI 1.3", "Tool supports LTI 1.3" (which is selected), and "Tool supports LTI 1.3". Below these are four text input fields for LTI 1.3 settings, each with a copy icon to its right: "LTI 1.3 Platform issuer (provide to tool)", "LTI 1.3 Tool Keyset URL (provided by the tool)", "LTI 1.3 Tool OpenID Connect/Initialization Endpoint (provided by the tool)", and "LTI 1.3 Tool Redirect Endpoint(s) (comma separated and provided by the tool)". At the bottom of this section, there are three radio buttons for "Type of LTI 1.1 Launch to Use": "Inherit System-Wide Default" (selected), "Use Legacy LTI 1.1 Launch", and "Use Round-trip LTI 1.1 Launch". At the very bottom, there are "Save" and "Cancel" buttons.

## 9. Save the External Tool.

- After you save the External Tool in Sakai, you will then see a screen with LTI 1.3 values that you will copy into the bottom portion of the Poll Everywhere Platforms page. Use the copy links, and paste the Sakai value into the respective Poll Everywhere field.

The screenshot displays the Sakai user interface. On the left is a navigation menu with options like Overview, Users, Sites, and Worksite Setup. The main content area is titled 'EXTERNAL TOOLS' and lists several LTI 1.3 values with 'Copy' buttons. A dark sidebar on the right contains 'Account admin' options such as 'Manage presenters', 'Account settings', and 'Authentication'. On the far right, a configuration form is visible with fields for 'Issuer', 'Client', 'Public key endpoint', 'OIDC Authentication Endpoint', and 'Access token endpoint', each containing a URL. Green arrows point from the 'Copy' buttons in the 'EXTERNAL TOOLS' section to the corresponding input fields in the configuration form. At the bottom of the form are 'Save' and 'Cancel' buttons.

- Save the Poll Everywhere Platforms page. The External tool should now be available to your faculty.