



Poll Everywhere & Sakai LTI Advantage integration guide for Sakai system administrators

Version 1.0.1

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 19.2.

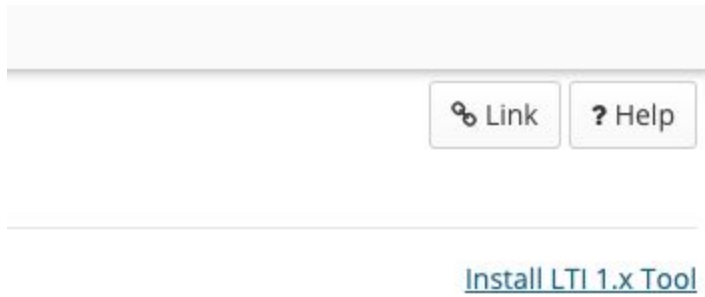
Users who want to manage External Tools must have access to the Administration Workspace. This is only necessary for the Sakai System Administrator who will be performing the initial setup to use Poll Everywhere on the LMS. The individual performing this setup will also need to be an Account owner or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

Create an External Tool

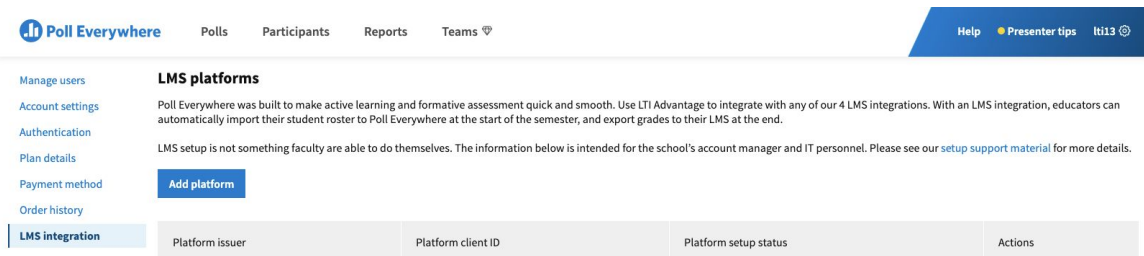
1. Start by logging into Sakai as the Sakai System Administrator.
2. Navigate to the Administration Workspace of Sakai, and click over to the External Tools section.

A screenshot of the Sakai Administration Workspace. The top navigation bar shows "Home" and "Administration Workspace". A sidebar on the left contains a menu with items: Overview, Users, Aliases, Sites, Realms, Worksite Setup, Announcements, and Resources. The main content area is titled "EXTERNAL TOOLS" and has two tabs: "Installed Tools" (selected) and "Tool Links". Below the tabs, the text reads: "No Tools Available of Installed" and "If you have a key and secret, you must first install the tool using this screen, and then to launch the tool can test launch your tool and get a URL for your tool from the tool configuration screen."

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



4. Open a new browser tab, navigate to PollEverywhere.com, and login with an Account Owner or Admin profile.
5. From the My Polls page: Click your username in the top right > Account Admin > LMS integration



6. On Poll Everywhere, click the button to Add platform.
7. On the next page, select Sakai from the dropdown list of platform options, and Save.

8. 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 on Sakai.

- Manage users
- Account settings
- Authentication
- Plan details
- Payment method
- Order history
- LMS integration**

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

Sakai

Tool OpenID Connect/initialization endpoint

https://www.polleverywhere.com/lms/lti_advantage/launch

Tool redirect endpoint

https://www.polleverywhere.com/lms/lti_advantage/user_conr

Public RSA key

```
-----BEGIN PUBLIC KEY-----
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAo8mq
Eu6gbG7xFOVizz8l
2USm9tkK4dUQgprVoDWjkGal5Sko7KUK5Su3A8B4aNZJ2fm
yyzOZqAFXLxPgvC0
4ptEE728WobvOGpFSatA/kdBHopluCXHHh59YCR2iiCKsy5fqV
```

Public JWK

```
{"kty":"RSA","e":"","AQAB","n":"o8mqEu6gbG7xFOVizz8l2USm9t
kK4dUQgprVoDWjkGal5Sko7KUK5Su3A8B4aNZJ2fmyyzOZq
AFXLxPgvC04ptEE728WobvOGpFSatA_kdBHopluCXHHh59YC
B3iCkC...F54V...D...U...H...C...D...H...D...M...D...k...
```

[? Help](#)

9. Configure the External Tool with the following values:
- a. Launch URL: <https://www.polleverywhere.com>

***Launch URL**

- b. Privacy Settings:
 - i. Send User Names to External Tool
 - ii. Send Email Addresses to External Tool

Privacy Settings:

- Send User Names to External Tool**
- Send Email Addresses to External Tool**

- c. Services:
 - i. Allow External Tool to return grades
 - ii. Allow External Tool to create grade columns
 - iii. Provide Roster 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**

- d. Allow the tool to be launched as a link

Indicate the following types of Content Item/Deep Link Selection launches. If you enable a tool which is not capable of responding to

- Allow the tool to be launched as a link (this is typically true for most to**
- Allow external tool to configure itself (the tool must support the IMS Cc**
- Allow the tool to be used from the rich content editor to select content**
- Allow the tool to provide a common cartridge (usually to be imported i**
- Allow the tool to provide a file (usually as part of a file picker)**
- Allow the tool to be one of the assessment types**

- e. Indicate that the Tool supports LTI 1.3

**If you select LTI 1.3 support, your configuration i
your tool has provided a public key or keyset for
provided for you. If we generate a private key fo
it will be deleted shortly after it is created.**

- Tool does not support LTI 1.3**
- Tool supports LTI 1.3**

- Next, copy the information from the Poll Everywhere Platform details page into the Sakai External Tool set up. Use the copy link icon next to each field for easy transposing.

LTI Advantage platform

Poll Everywhere was built to make active learning and formative integration, educators can automatically import their student data into their LMS.

LMS setup is not something faculty are able to do themselves. See our [support material](#) for more details.

Platform

Sakai

Tool OpenID Connect/initialization endpoint

https://www.polleverywhere.com/lms/lti_advantage/launch

Tool redirect endpoint

https://www.polleverywhere.com/lms/lti_advantage/user_confirm

Public RSA key

If you select LTI 1.3 support, your configuration information should be immediately provided for you. If we generate a private key for the tool, you need to view it, it will be deleted shortly after it is created.

Tool does not support LTI 1.3

Tool supports LTI 1.3

LTI 1.3 Tool OpenID Connect/Initialization Endpoint (provided by the tool)

https://www.polleverywhere.com/lms/lti_advantage/launch

LTI 1.3 Tool Redirect Endpoint(s) (comma separated and provided by the tool)

https://www.polleverywhere.com/lms/lti_advantage/user_confirm

- Add a Tool Title and Button Text to create the External Tool.
- Save the External Tool.
- Edit the External Tool again. Replace the existing LTI 1.3 Tool Public Key in Sakai with the Public RSA Key from Poll Everywhere.

LTI 1.3 Client ID (provide to the tool)

1034f752-f5cd-4e00-91d4-faf995dbed87

LTI 1.3 Tool Public Key (provided by the tool)

-----BEGIN PUBLIC KEY-----
MIIBjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEzWnH5LN1m17y7muHmKF
p04kNmQqVfu76irki9eErW54bk56PawgKH7z
oegXISvUrIDXR+wUsqVqYtGHDPQJ

LTI 1.3 Tool Private Key (for messages from the tool)

-----BEGIN PRIVATE KEY-----
MIIEvAIBADANBgkqhkiG9w0BAQEFAASCBK
YwggSIAgEAAoIBAQCIKWctOEIuiKUgm
WaLknC4Qah6wmgreBaxEgjlLeKXhQL6XRzm
LjQ...807dM5B...14116...211015

https://www.polleverywhere.com/lms/lti_advantage/user_confirm

Public RSA key

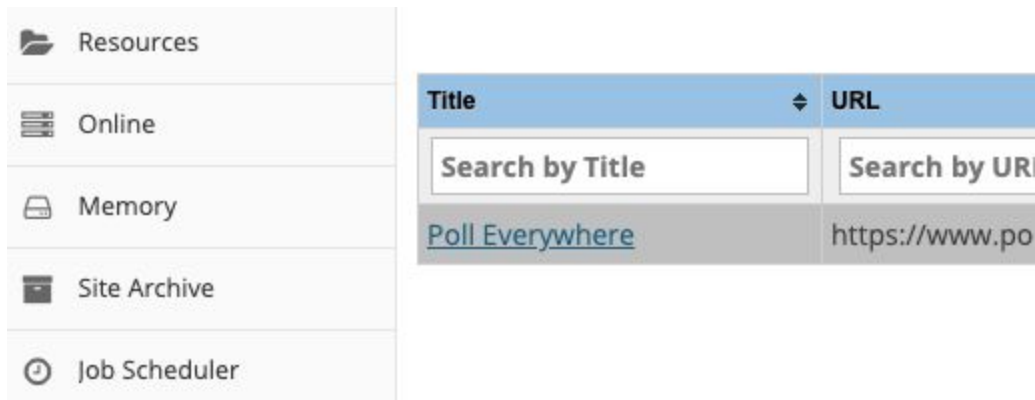
-----BEGIN PUBLIC KEY-----
MIIBjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEzWnH5LN1m17y7muHmKF
p04kNmQqVfu76irki9eErW54bk56PawgKH7z
oegXISvUrIDXR+wUsqVqYtGHDPQJ
CvaUEmrVObaz6Mcl1csZGgo1oroW9SLuNjiWAmgMdAlc8ZfzEI

Public JWK

["kty":"RSA","e":"","AQAB","n":"","zWnH5LN1m17y7muHmKFp04kNmQqVfu76irki9eErW54bk56PawgKH7zoegXISvUrIDXR-wUsqVqYtGHDPQJ,CvaUEmrVObaz6Mcl1csZGgo1oroW9SLuNji

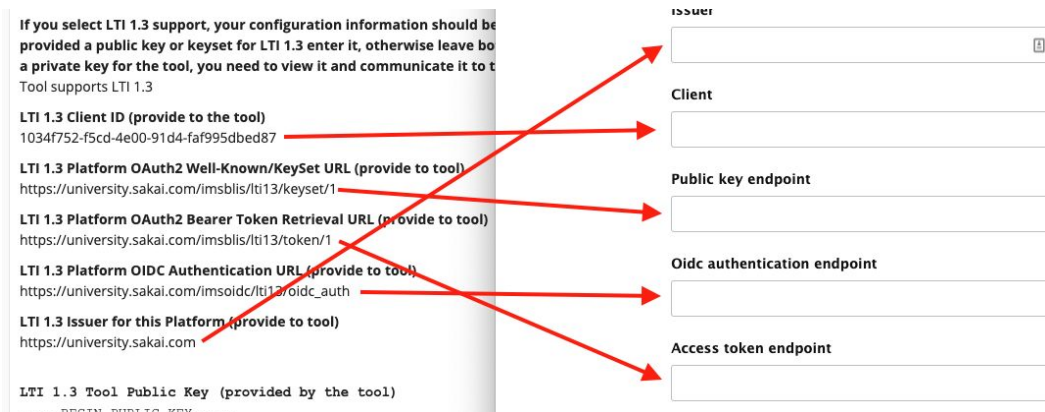
- Save the External Tool.

15. Click on the name of the External Tool.



16. Copy the following values from Sakai to Poll Everywhere

- LTI 1.3 Client ID (Sakai) to Client (Poll Everywhere)
- LTI 1.3 Platform OAuth2 Well-Known/KeySet URL (Sakai) to Public key endpoint (Poll Everywhere)
- LTI 1.3 Platform OAuth2 Bearer Token Retrieval URL (Sakai) to Access token endpoint (Poll Everywhere)
- LTI 1.3 Platform OIDC Authentication URL (Sakai) to OIDC authentication endpoint (Poll Everywhere)
- LTI 1.3 Issuer for this Platform (Sakai) to Issuer (Poll Everywhere)



Save the Platform on Poll Everywhere to complete the setup.