Tools to Enhance and Extend Canvas



Respondus®

Assessment Tools for Learning Systems



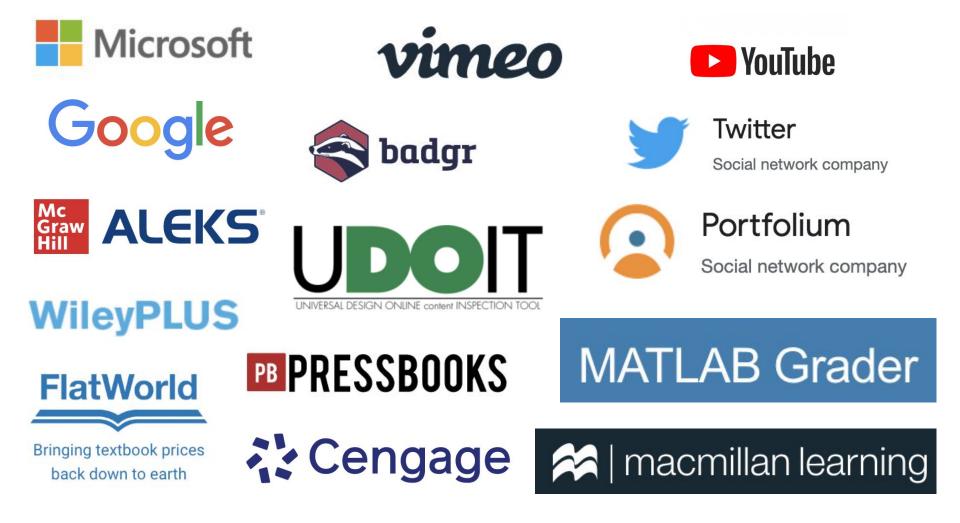


Equatio





ТОР НАТ



What is LTI?



Learning Tools Interoperability (LTI) is an education technology specification developed by the <u>IMS Global Learning Consortium</u>. It specifies a method for a learning system to invoke and to communicate with external systems.

LTI provides a framework through which an LMS can send some verifiable information about a user to a third party. For LTI to work, the third party needs to provide a consumer key and shared secret (1.1) or development key (1.3) that Canvas can use to generate a signature to verify the authenticity of the data sent.

Example: a Learning Management System (LMS) may use LTI to host course content and tools provided by external, third-party systems on a web site, without requiring a learner to log in separately on the external systems, with information about the learner and the learning context shared by the LMS with the external systems.

Upgrade to LTI Advantage

LTI Advantage is a package of LTI services that are vetted, supported, and certified by IMS Global Learning Consortium.

Three LTI Advantage feature services:

- Names and Role Provisioning Services
 - Automate course enrollment into third-party tools
 - Provide faculty with reports on student activity within the tool.
- Deep Linking
 - Simplify course building with the easy addition of deep links to content, including content playlists and tables of content.
- Assignment and Grade Services
 - Dynamically update scores and comments from third-party tools into a single place, such as the LMS gradebook.

LTI Advantage Conformance Certification



There are two classifications of LTI Advantage conformance certification:

- 1. LTI Advantage Complete
 - Any Learning Platform or Tool that completes certification testing for LTI 1.3 Core and all three LTI Advantage services
 - Certification is required for all Learning Platforms.
- 2. LTI Advantage Certified
 - Any Tool that completes certification for LTI 1.3 Core and either one or two services

All certified products are issued a certification number and are listed in the <u>IMS</u> <u>Certified Product Directory</u>.

LTI Tool Sources

- External: Third-party vendors
 - Majority of LTI tools
 - Must go through software approval process

• Instructure Canvas

- New Quizzes
- Canvas Data
- Canvas Commons
- New Analytics
- Attendance
- VT
 - Guests Tool
 - CyberRange



What are External Apps (LTI Tools)?

- Add functionality to a Canvas course. For example, an instructor may want to include a study aid (flashcards, mini-quizzes, etc.) to help students better understand the concepts being taught.
- Can be configured on the account or course level.
- Can be added to Modules, Course Navigation, the Rich Content Editor, and Assignments.

https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-External-Apps-LTI-Tools/ta-p/57

VT Approved LTI Tools

1. ServiceNow Knowledge Base: Search <u>4help.vt.edu</u> for "LTI Tools" <u>https://vt4help.service-now.com/sp?id=kb_article&sysparm_article=KB0010778</u>

2. In <u>Canvas</u>:

- a. Navigate to a course.
- b. In the list of tools, choose **Settings**.
- c. In the tabs across the top, choose **Apps**.
- d. Click the View App Configurations button.



LTI Tool Request Process

- 1. Initial request: User/faculty requests LTI via ServiceNow request form.
 - <u>https://4help.vt.edu/sp?id=sc_cat_item&sys_id=9264f100db29ab0ccd2c56594b9619ee</u>
- 2. **Information gathering**: Work with vendor to get forms signed and information about LTI tool.
 - HECVAT, IT Security form, FERPA agreement, Terms and Conditions, Privacy Policy
- 3. **Submit for approval**: Submit paperwork and form for software approval process via ServiceNow request form.
 - Must be reviewed by IT security, the registrar, IT procurement, and the University legal team.
- 4. **Installation**: Once approved, tool is added to Canvas by Learning Services Team.
- 5. Documentation and Testing
- 6. **Roll out:** User/Faculty is contacted.

Additional LTI Tool Information

Most LTI tools are seamlessly integrated, but...

- Some LTI tools require users to log in with their credentials the first time accessing the tool.
 - Ex: Microsoft, Google
- Some LTI tools require users to have an account with the third party company.
 Ex: Publisher tools
- Some LTI tools require cookies to load.
 - Ex: Packback, Piazza
- Some LTI tools require students to purchase a subscription and/or equipment to use.
 - Ex: iClicker, TopHat, Publisher tools

Accessing LTI Tools In Canvas

How to access and use a tool depends on where it's integrated in Canvas:

- Add the Course Navigation Menu Control which tools display in the Course Navigation Menu.
- Add to an Assignment Set up a Canvas Assignment that uses the tool.
- Add to a Module Link the tool's content or an Assignment to a Module.
- Add to a Rich Content Editor Link the tool to a Page or to the Syllabus.
- Add to Collaborations Use the tool inside of Canvas Collaborations.

https://vt4help.service-now.com/sp?id=kb_article&sys_id=45571cb10f378240d3254b9ce1050e28

LTI Tool Support - Getting Help

Check Canvas LTI ServiceNow Knowledge Base page for help with LTI tools

• Search <u>4help.vt.edu</u> for "LTI Tools"

https://vt4help.service-now.com/sp?id=kb_article&sys_id=45571cb10f378240d325 4b9ce1050e28

- Use ctrl+F to search for tool in question
- If unsure, open an incident at 4help.vt.edu and will be directed to correct place for help
- Most third party tools, especially textbook LTI apps, are supported by third party company.

Questions?

