

Follett Willo Overview

Follett Willo is a course delivery tool that provides a universal connection point between the Learning Management System and publisher content. This seamless integration provides codeless access to course materials and enables single sign-on access. Willo can also enable various levels of privacy and anonymization to protect student and faculty data. Please reach out to your Follett Integration Specialist for more information on the anonymization features available.

Implementation Process

Follett Willo utilizes LTI 1.1, LTI 1.3, and API to integrate into your Blackboard instance. Your Follett Integration Specialist will work with you to implement the Follett Willo tools in Blackboard.

Implementation Steps

1. [Configure Follett Willo LTI 1.1 in Blackboard](#) (*Blackboard Admin*)
2. [Configure Follett Willo LTI 1.3 in Blackboard](#) (*Blackboard Admin*)
3. [Configure Follett Willo API in Blackboard](#) (*Blackboard Admin*)
4. [Complete Connection Configuration in Follett](#) (*Follett Integration Specialist*)
5. [Test Follett Willo Launches](#) (*Blackboard Admin and Follett Integration Specialist*)

Configuring Follett Willo LTI 1.1 in Blackboard

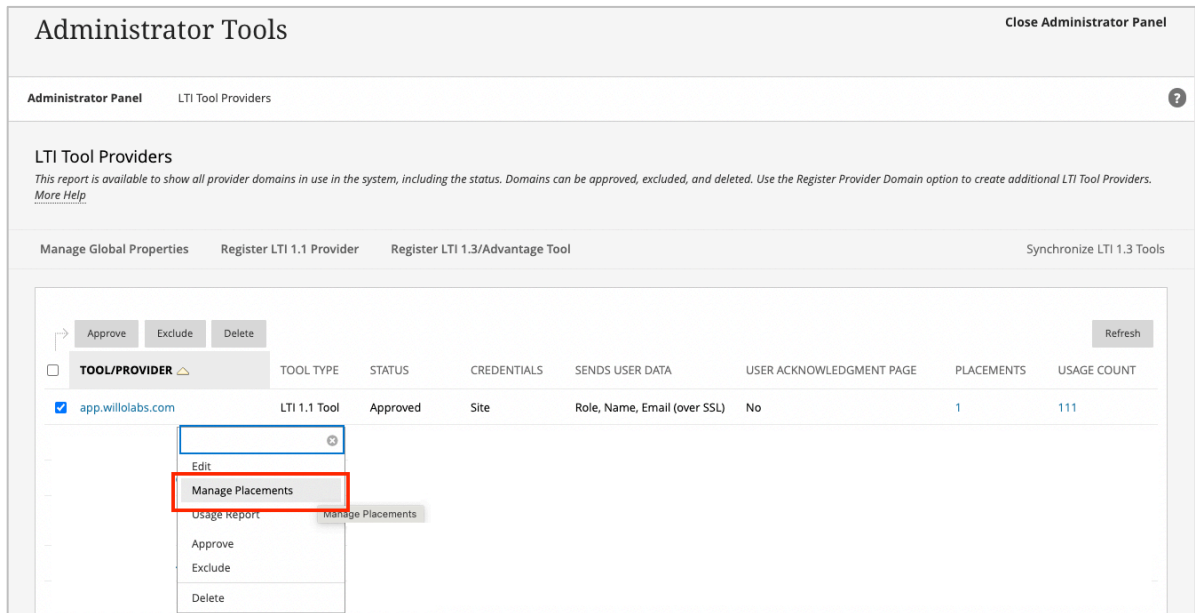
Install the LTI 1.1 Tool (LTI Tool Providers)

1. Log into Blackboard as an Administrator and navigate to the **Admin** tab.
2. Under **Integrations**, click **LTI Tool Providers**.
3. Click **Register LTI 1.1 Provider**.
4. Define the following properties:
 - a. Provider Domain: *Choose based on your institution's country*
 - i. US Institutions: app.willolabs.com
 - ii. CA Institutions: ca.willolabs.com
 - b. Provider Domain Status: Approved
 - c. Default Configuration: Set Globally
 - d. Tool Provider Key/Secret: *Provided by Follett Integration Specialist*
 - e. User Fields to Send: *Select the following*
 - i. Role in Course
 - ii. Name
 - iii. Email Address
 - f. Allow Membership Services: Yes

5. Click **Submit**.

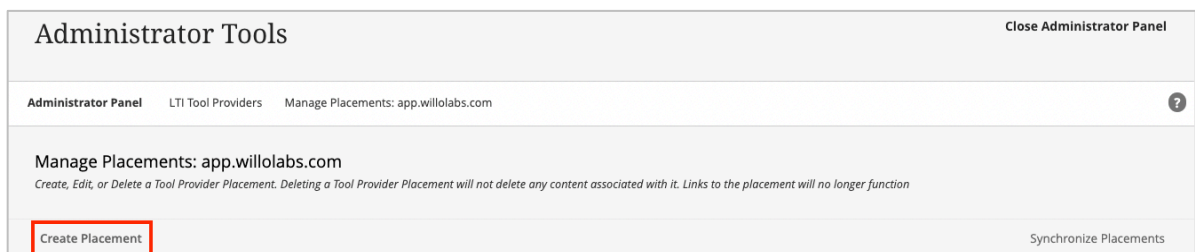
Add the LTI 1.1 Placement (LTI Tool Providers)

1. Log into Blackboard as an Administrator and navigate to the **Admin** tab.
2. Under **Integrations**, click **LTI Tool Providers**.
3. Locate the tool provider (**app.willolabs.com** for US institutions or **ca.willolabs.com** for CA institutions), select the *down arrow* to the right of the link, and select **Manage Placements**.



The screenshot shows the 'Administrator Tools' interface. At the top, there's a 'Close Administrator Panel' button. Below that, the 'Administrator Panel' is titled 'LTI Tool Providers'. A sub-header reads 'LTI Tool Providers' with a note: 'This report is available to show all provider domains in use in the system, including the status. Domains can be approved, excluded, and deleted. Use the Register Provider Domain option to create additional LTI Tool Providers. More Help'. Navigation links include 'Manage Global Properties', 'Register LTI 1.1 Provider', 'Register LTI 1.3/Advantage Tool', and 'Synchronize LTI 1.3 Tools'. A table lists tool providers with columns: TOOL/PROVIDER, TOOL TYPE, STATUS, CREDENTIALS, SENDS USER DATA, USER ACKNOWLEDGMENT PAGE, PLACEMENTS, and USAGE COUNT. The first row is 'app.willolabs.com', 'LTI 1.1 Tool', 'Approved', 'Site', 'Role, Name, Email (over SSL)', 'No', '1', and '111'. A dropdown menu is open for 'app.willolabs.com', with 'Manage Placements' highlighted in a red box. Other options include 'Edit', 'Usage report', 'Approve', 'Exclude', and 'Delete'.

4. Select **Create Placement**.



The screenshot shows the 'Administrator Tools' interface. At the top, there's a 'Close Administrator Panel' button. Below that, the 'Administrator Panel' is titled 'LTI Tool Providers' and 'Manage Placements: app.willolabs.com'. A sub-header reads 'Manage Placements: app.willolabs.com' with a note: 'Create, Edit, or Delete a Tool Provider Placement. Deleting a Tool Provider Placement will not delete any content associated with it. Links to the placement will no longer function'. A 'Create Placement' button is highlighted with a red box. At the bottom right, there's a 'Synchronize Placements' button.

5. Define the following properties:
 - a. Label: Follett Willo Digital Delivery 1.1
 - b. Handle: follett-willo-1-1
 - c. Availability: Yes
 - d. Type: Deep Linking content tool
 - e. Launch in a New Window: Enabled
 - f. Tool Provider URL: *Choose based on your institution's country*
 - i. US Institutions: <https://app.willolabs.com/onelink/>
 - ii. CA Institutions: <https://ca.willolabs.com/onelink/>

Follett Willo Configuration Guide For Blackboard

* Indicates a required field.

PLACEMENT INFORMATION

* Label
The label that displays in the course

Description
For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

Rich Text Editor Rich Text Editor

0 WORDS POWERED BY TINY

* Handle
Uniquely identifies the placement

* Availability Yes No
Make placement available to course builders and instructors

Type
Placement Type determines where this tool appears in Blackboard Learn. The tool can be placed in a course or made available for specific users. [Learn more about placement types.](#)

- Deep Linking content tool
 - Allow student access
- Course content tool
 - Allows grading
- Course tool
 - Allow student access
- System tool
- Administrator tool
- Ultra extension

- Proctoring tool
- Base navigation tool
- Course navigation tool
- Cloud document
- Asset processor tool
- OpenBadge provider

Launch in New Window

Icon

TOOL PROVIDER INFORMATION

Enter the Tool Provider Information. The Tool Provider URL must be located on one of the configured host names.

* Tool Provider URL

* Tool Provider Key

* Tool Provider Secret

Tool Provider Custom Parameters

Enter any custom parameters required by the tool provider. Parameters must each be on their own line and be entered in "name=value" format.

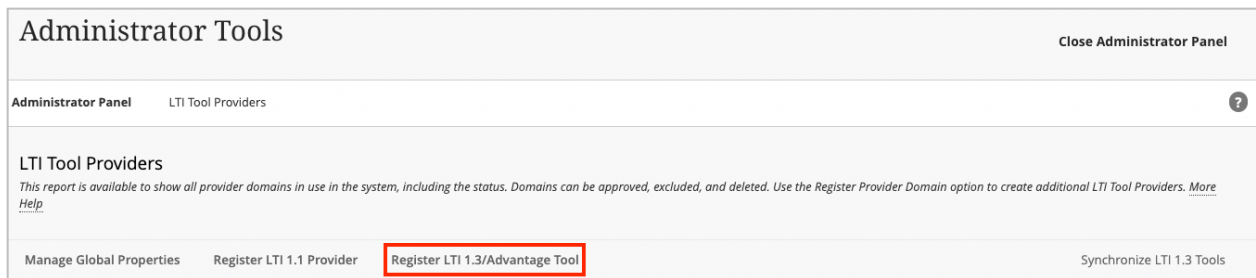
*Click **Submit** to proceed.*

6. Click **Submit**.

Configuring Follett Willo LTI 1.3 in Blackboard

Install the LTI 1.3 Tool (LTI Tool Providers)

1. Log into Blackboard as an Administrator and navigate to the **Admin** tab.
2. Under **Integrations**, click **LTI Tool Providers**.
3. Click on **Register LTI 1.3/Advantage Tool**.



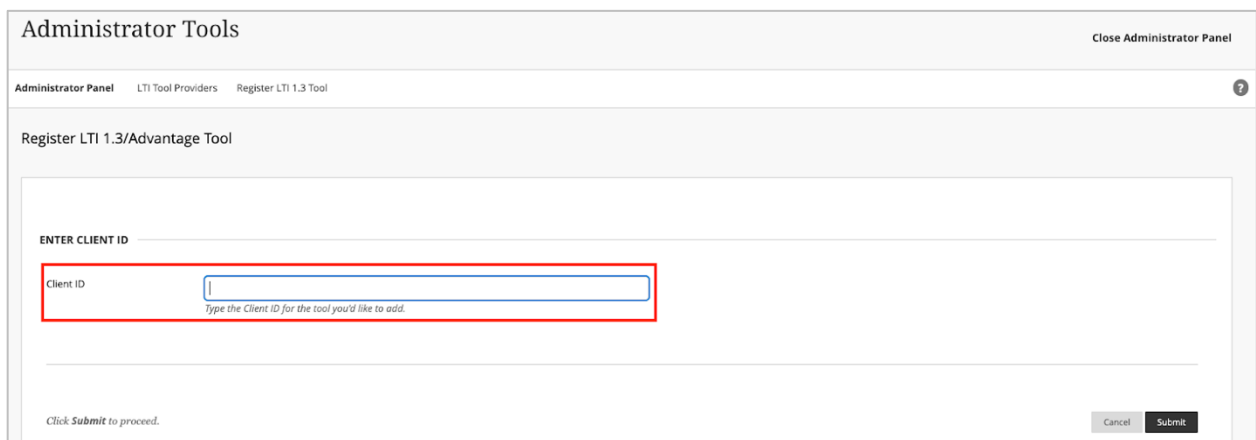
Administrator Tools Close Administrator Panel

Administrator Panel LTI Tool Providers ?

LTI Tool Providers
This report is available to show all provider domains in use in the system, including the status. Domains can be approved, excluded, and deleted. Use the Register Provider Domain option to create additional LTI Tool Providers. [More Help](#)

Manage Global Properties Register LTI 1.1 Provider **Register LTI 1.3/Advantage Tool** Synchronize LTI 1.3 Tools

4. Enter the appropriate Application ID into the Client ID field:
 - a. US Institutions: **a02a4e53-1d68-4fc8-b940-2649f0effd81**
 - b. CA Institutions: **13d414f7-e2ed-493a-a769-60c18df4c94d**



Administrator Tools Close Administrator Panel

Administrator Panel LTI Tool Providers Register LTI 1.3 Tool ?

Register LTI 1.3/Advantage Tool

ENTER CLIENT ID

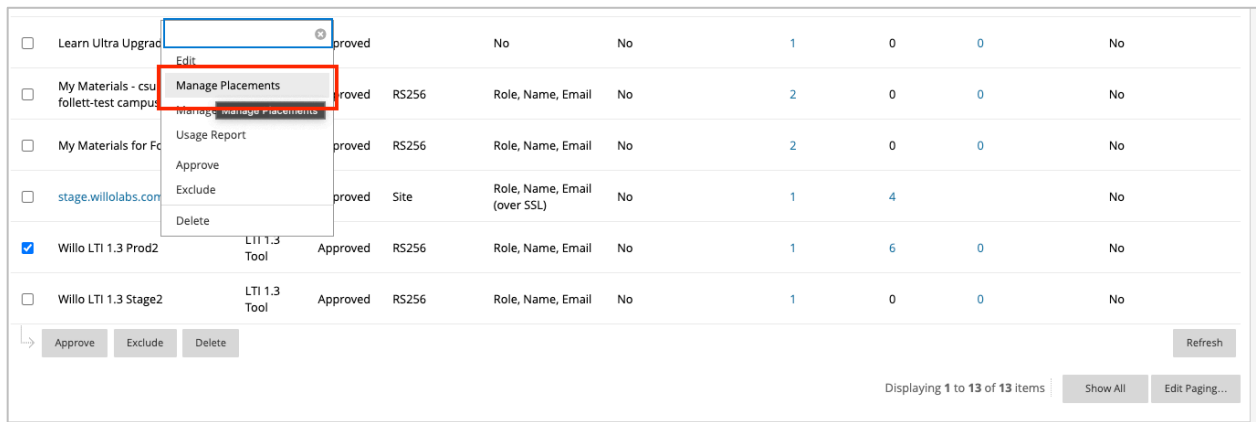
Client ID
Type the Client ID for the tool you'd like to add.

Click Submit to proceed. Cancel Submit

5. Define the following properties:
 - a. Note the **Deployment ID** that is provided.
 - b. Update Tool Status to **Approved**.
 - c. User Fields to Send: *Select the following*
 - i. Role in Course
 - ii. Name
 - iii. Email Address
 - d. Allow grade service access: Yes
 - e. Allow Membership Service Access: Yes
6. Click **Submit**.
7. Send the **Deployment ID** to your Follett Integration Specialist.

Add the LTI 1.3 Placement (LTI Tool Providers)

1. Log into Blackboard as an Administrator and navigate to the **Admin** tab.
2. Under **Integrations**, click **LTI Tool Providers**.
3. Locate the new LTI 1.3 tool provider, select the *down arrow* to the right of the link and select **Manage Placements**. This tool provider will be called **Willo LTI 1.3 Prod2** for US institutions or **Willo LTI 1.3 CA Prod2** for CA institutions.



The screenshot shows a table of LTI Tool Providers. A dropdown menu is open for the 'Willo LTI 1.3 Prod2' entry, with 'Manage Placements' highlighted. The table has columns for checkboxes, tool names, statuses, roles, and counts.

Tool Provider	Status	Role	Name	Email	Count	Count	Count	Count
<input type="checkbox"/> Learn Ultra Upgrad	Approved	No	No	No	1	0	0	No
<input type="checkbox"/> My Materials - csu follett-test campus	Approved	RS256	Role, Name, Email	No	2	0	0	No
<input type="checkbox"/> My Materials for Fc	Approved	RS256	Role, Name, Email	No	2	0	0	No
<input type="checkbox"/> stage.willolabs.com	Approved	Site	Role, Name, Email (over SSL)	No	1	4		No
<input checked="" type="checkbox"/> Willo LTI 1.3 Prod2	Approved	RS256	Role, Name, Email	No	1	6	0	No
<input type="checkbox"/> Willo LTI 1.3 Stage2	Approved	RS256	Role, Name, Email	No	1	0	0	No

4. Select **Create Placement**.



The screenshot shows the 'Manage Placements' page for 'app2.willolabs.com'. The 'Create Placement' button is highlighted with a red box. The page includes a breadcrumb trail: Administrator Panel > LTI Tool Providers > Manage Placements: app2.willolabs.com.

5. Define the following properties:
 - a. Label: Follett Willo Digital Delivery 1.3
 - b. Handle: follett-willo-1-3
 - c. Availability: Yes
 - d. Type: Deep Linking content tool
 - e. **NOTE: Do not enable Launch in New Window**
 - a. Tool Provider URL: *Choose based on your institution's country*
 - i. US Institutions: <https://app2.willolabs.com/onelink/>
 - ii. CA Institutions: <https://ca2.willolabs.com/onelink/>

Follett Willo Configuration Guide For Blackboard

* Indicates a required field.

PLACEMENT INFORMATION

* Label
Follett Willo Digital Delivery 1.3
The label that displays in the course

Description
For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

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* Handle
follett-willo-1-3
Uniquely identifies the placement

* Availability
 Yes No
Make placement available to course builders and instructors

Type
Placement Type determines where this tool appears in Blackboard Learn. The tool can be placed in a course or made available for specific users. [Learn more about placement types.](#)

Deep Linking content tool
 Allow student access

Course content tool
 Allows grading

Course tool
 Allow student access

System tool
 Administrator tool
 Ultra extension

Proctoring tool
 Base navigation tool
 Course navigation tool
 Cloud document
 Asset processor tool
 OpenBadge provider

Launch in New Window

Icon
Browse

TOOL PROVIDER INFORMATION

Enter the Tool Provider Information. The Tool Provider URL must be located on one of the configured host names.

* Target Link URI
https://app2.willolabs.com/onelink/

Tool Provider Custom Parameters

Enter any custom parameters required by the tool provider. Parameters must each be on their own line and be entered in "name=value" format.

Click **Submit** to proceed.

Cancel Submit

6. Click **Submit**.

Configure Follett Willo API in Blackboard

[Optional] Setup System-Specific Role and User for API Authentication (System Roles)



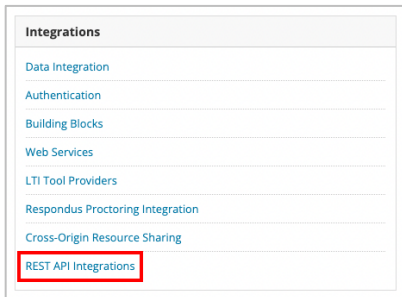
You may provide authorization to the Application ID using your personal Blackboard admin user account. If that is the case, you can skip to the [Install API](#) section. Please follow the steps in this section if you'd like to create a specific system role and user account for Follett Willo Digital Delivery.

1. Log into Blackboard as an Administrator and navigate to the **Admin** tab.
2. Under **Users** select **System Roles**, and then click on **Create Role**.
3. Input a **Role Name** and **Role ID** and then click **Submit**.
4. Assign the following permissions by searching each permission and then select the checkmark beside the permission. Select the **Privileges** menu and then select **Permit Privileges**.
 - a. Administrator Panel (Courses) > Courses
 - b. Administrator Panel (Courses) > Courses > Edit > Course Properties
 - c. Administrator Panel (Users) > Users
 - d. Administrator Panel (Courses) > Terms
 - e. Course/Organization Control Panel (Grade Center) > All Grading
 - f. Course/Organization Control Panel (Grade Center) > Full Control
 - g. Course/Organization (Content Areas) > Create Materials
 - h. Course/Organization (Content Areas) > Edit Materials
 - i. Course/Organization Control Panel (Users and Groups) > Users
5. When complete, navigate back to the Administrator Panel and choose **Users**.
6. Click **Create User** and provide a **First Name** (sugg. Follett), **Last Name** (sugg. Willo), and **Username** (sugg. follettwillodigitaldelivery). Select **Staff** for **Institution Role** and then select your newly created **System Role** from **Step 3** for a **System Role**.
7. Click **Submit**.

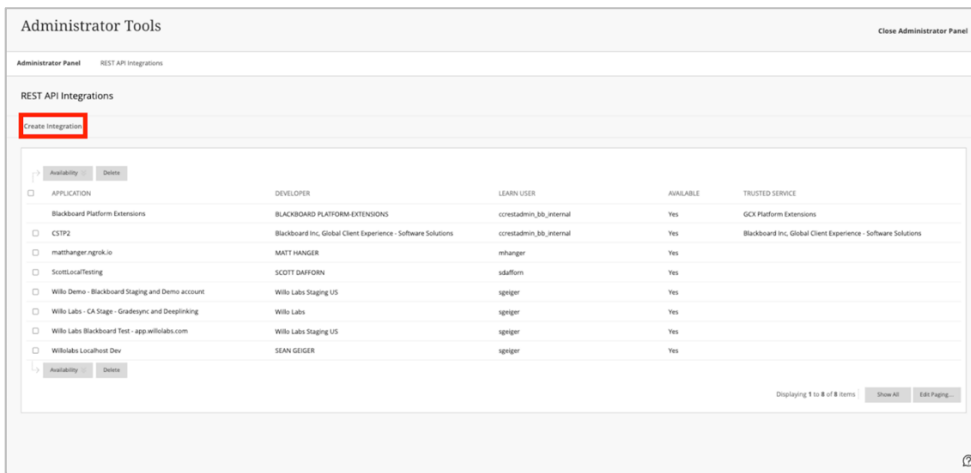
Install API (REST API Integrations)

1. Log into Blackboard as an Administrator and navigate to the **Admin** tab.

2. Under **Integrations**, click **REST API Integrations**.

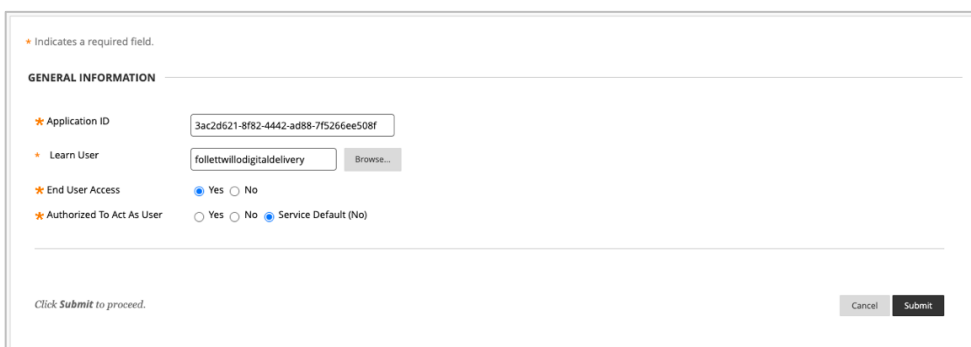


3. Click **Create Integration**.



4. Define the following properties:

- a. Application ID: Choose based on whether your instance is Blackboard-hosted (must end in *blackboard.com) or self-hosted.
 - i. Blackboard-hosted: **3ac2d621-8f82-4442-ad88-7f5266ee508f**
 - ii. Self-hosted: *Provided by Follett Integration Specialist*
- b. Learn User: Your administrator username or the one created in the previous section
- c. End User Access: Yes
- d. Authorized To Act as User: Service Default (No)



5. Click **Submit**.

Complete Configuration in Follett

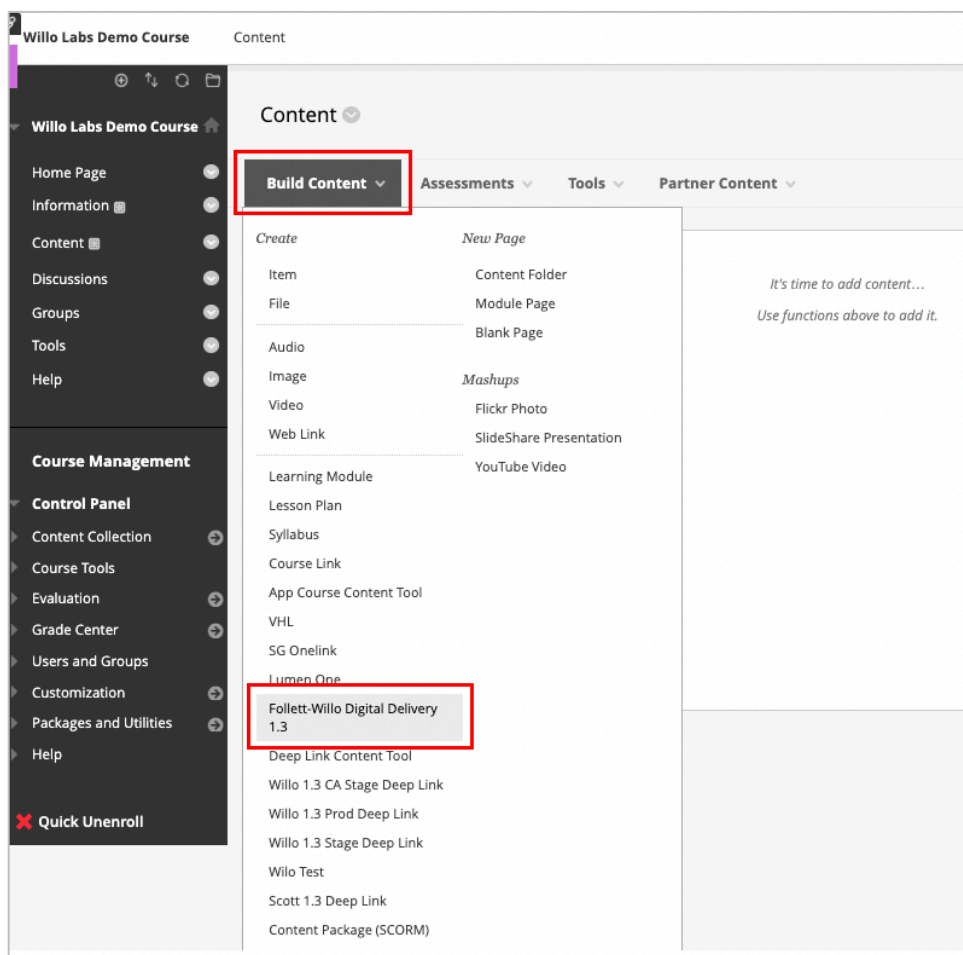
To establish a LTI 1.3 connection, your Follett Integration Specialist will need to complete the Follett configuration using the Deployment ID generated by Blackboard. Please email your Blackboard connection details to your Integration Specialist If you have not already done so. They will contact you when the connection is completed and ready for the testing phase.

Test Follett Willo Launches

1. Navigate to a sandbox course in Blackboard and click into a content area. Follow the below steps based on the course view you are using to launch the Follett Willo Digital Delivery 1.1 and 1.3 tools.

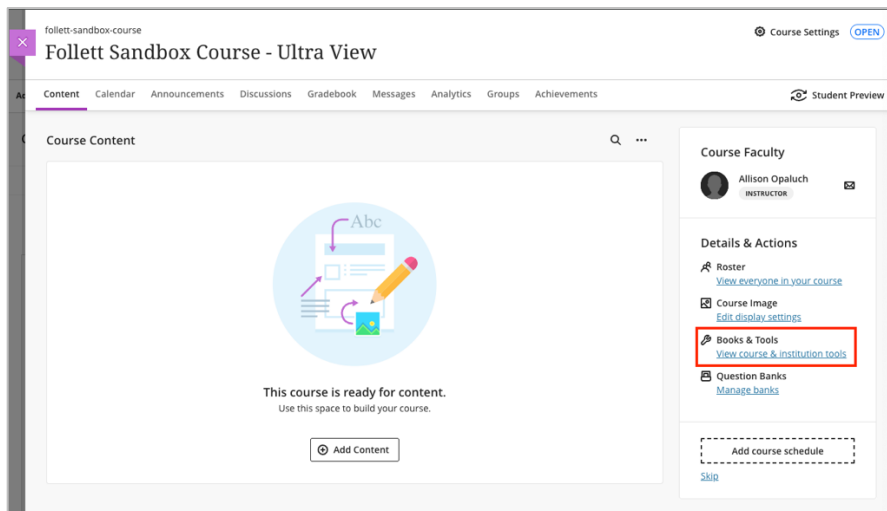
Original Course View

Click on the **Build Content** menu, choose and select **Follett Willo Digital Delivery 1.1/1.3** from the dropdown menu.

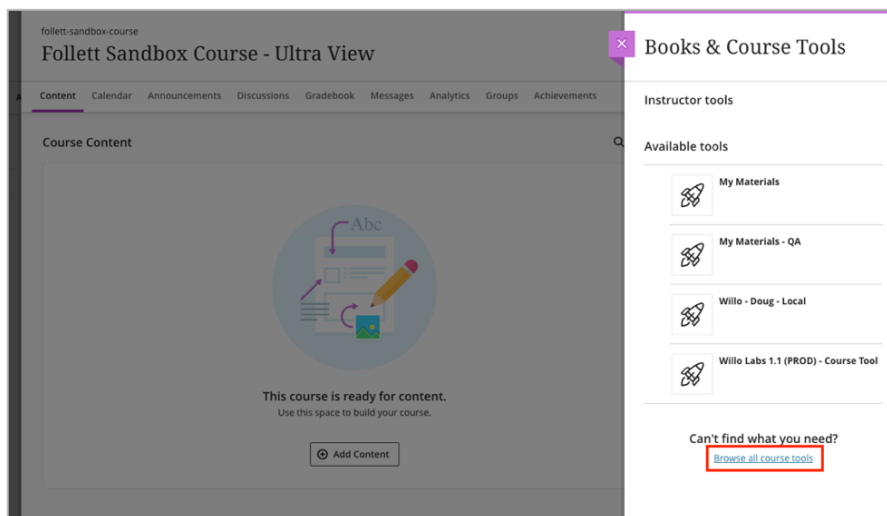


Ultra Course View

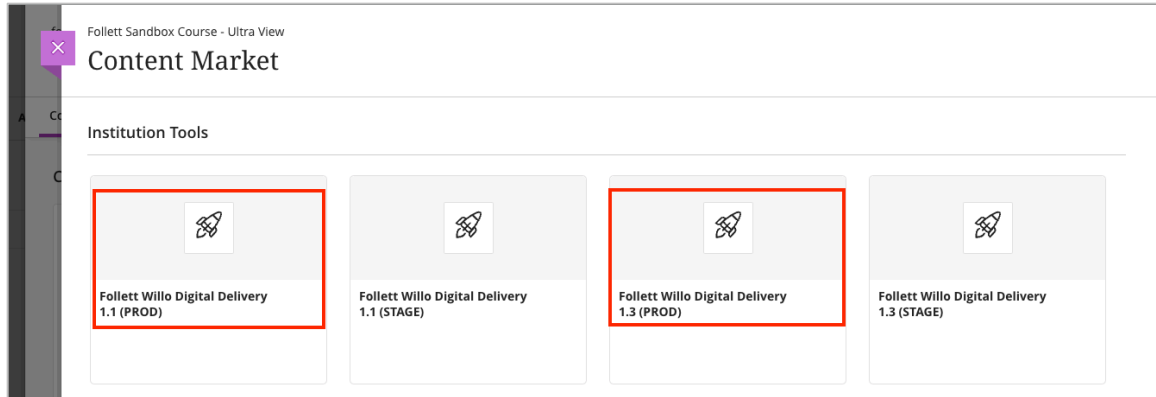
Within the **Details & Actions** menu, click on **View course & institution tools**.



Click on **Browse all course tools**.



Choose and select **Follett Willo Digital Delivery 1.1/1.3** from the listed **Institution Tools**.



2. Click **Continue in a New Window** and then input the product token provided by your Follett Integration Specialist.
 - a. **NOTE:** You will be provided a separate product token for each LTI version and will need separate Blackboard sandbox courses to test each version.
3. Click **Verify**, then **Confirm**, and then **Course Management**. Depending on the version, you may have to click **Add Product Links** and then select all the links and **Return Link(s) to LMS**.
4. If successful, links should populate in the content area.