

Learnvelo LTI 1.3 Setup Guide for Blackboard

This guide walks LMS administrators through connecting Learnvelo to Blackboard (Anthology) using LTI 1.3. After completing these steps, instructors will be able to add Learnvelo content directly into their Blackboard courses.

Prerequisites

- Blackboard system administrator access
- A Learnvelo account with the **LMS Admin** role. If you don't have one, sign up at app.learnvelo.com/signup and select **LMS Admin** as your role during registration – no approval from Learnvelo is needed to create an account.

Overview

Blackboard uses a centralized tool registration model. Learnvelo is already registered in the Blackboard developer portal, so setup is straightforward — you enter Learnvelo's Application ID in your Blackboard admin panel, configure the tool, and then enter the resulting Deployment ID in Learnvelo.

1. Register your institution in Learnvelo
2. Create an LTI platform in Learnvelo
3. Register Learnvelo in your Blackboard admin panel using the Application ID
4. Enter the Blackboard-provided configuration values in Learnvelo
5. Add the Deployment ID
6. Test the connection

Step 1: Register Your Institution in Learnvelo

If your institution is not yet registered in Learnvelo, you will need to register it first.

1. Log in to Learnvelo at app.learnvelo.com
2. Navigate to **My Institutions** from the dashboard menu
3. Click **Register Institution**
4. Fill in the required fields:
 - **Institution Name** – Your institution's official name
 - **Website** – Your institution's website URL
 - **Primary Contact Name** – The person managing the LTI integration
 - **Contact Title** – Their role
5. Click **Submit Registration**



My Institutions > Register Institution

Register Institution

Once submitted, your institution will be reviewed by the Learnvelo team. You can configure LTI platforms while the review is in progress.

Institution Name *
Test Institution

Website *
https://testinstitution.edu

Primary Contact Name *
John Smith

Contact Title *
Director of Educational Technology

Description
Test institution for documentation screenshots.

Submit Registration

Learnvelo institution registration form

Note: Your institution will be reviewed by the Learnvelo team. You can proceed with the LTI configuration while the review is in progress, but LTI launches will not work until approval is granted.

Step 2: Create an LTI Platform in Learnvelo

1. From your institution's detail page, go to the **Integrations** tab
2. Click **Add Integration**
3. In the dialog, enter:
 - **Platform Name** – A descriptive name (e.g., “Blackboard Production”)
 - **LMS Type** – Select **Blackboard**
 - **Environment** – Select **Production**
4. Click **Create Integration**

You will be redirected to the platform detail page.

Step 3: Register Learnvelo in Blackboard

3a. Open LTI Tool Providers

1. In your Blackboard admin panel, go to **Admin Panel > Integrations > LTI Tool Providers**
2. Click **Register LTI 1.3/Advantage Tool**

Administrator Panel LTI Tool Providers

Success: LTI 1.3 Tool Edited: Learnvelo.

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

	TOOL/PROVIDER	TOOL TYPE	STATUS	CREDENTIALS	SENDS USER DATA	USER ACKNOWLEDGMENT PAGE	PLACEMENTS	USAGE COUNT	DEPLOYMENTS COUNT	ALLOW JAVASCRIPT INJECTION
<input type="checkbox"/>	Blackboard Home	LTI 1.3 Tool	Excluded		No	No	1	0	0	No
<input type="checkbox"/>	CSTP2	LTI 1.3 Tool	Approved	RS256	Role, Name, Email	No	2	0	0	No
<input type="checkbox"/>	developer.blackboard.com	LTI 1.1 Tool	Approved	Per Link	No	No	1	0		No
<input type="checkbox"/>	ec2-13-218-23-54.compute-1.amazonaws.com	LTI 1.1 Tool	Approved	Per Link	Role, Name, Email	No	3	0		No
<input type="checkbox"/>	Extensions-stage	LTI 1.3 Tool	Approved	RS256	Role, Name, Email	No	0	0	0	No
<input type="checkbox"/>	Learnvelo	LTI 1.3 Tool	Approved	RS256	Role, Name, Email	No	0	0	0	No

Blackboard LTI Tool Providers

3b. Enter the Learnvelo Application ID

Enter the following Application ID and click **Submit**:

5fdb8bb0-b5a8-4c1e-b2e4-e7c5138abe37

Blackboard will retrieve Learnvelo's tool configuration automatically from the developer portal.

Blackboard Administrator Tools

Administrator Panel > LTI Tool Providers > Register LTI 1.3 Tool

Register LTI 1.3/Advantage Tool

ENTER CLIENT ID

Client ID

5fdb8bb0-b5a8-4c1e-b2e4-e7c5138abe37

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

Click **Submit** to proceed.

Cancel Submit

Blackboard Register LTI Tool

3c. Review Tool Details and Set Status

After submitting, Blackboard displays the **Accept LTI 1.3 Tool** page with Learnvelo's configuration pre-filled (name, description, URLs, and a default Deployment ID). These fields are read-only.

Under **Tool Status**, select **Approved**.

Accept LTI 1.3 Tool

TOOL STATUS

The following fields are read-only, but you can toggle the status of this tool

Client ID

Name

Description

Default Deployment ID

Initiate Login URL

Tool Redirect URLs

JWKS URL

Domains

Tool Status Approved Excluded

Tool Provider Custom

*Click **Submit** to proceed.*

Blackboard Accept LTI 1.3 Tool - Tool Status

3d. Configure Institution Policies

Scroll down to the **Institution Policies** section and configure the following:

- **User Fields to Send** – Enable all three:
 - Role in Course
 - Name
 - Email Address
- **Allow grade service access** – Set to **Yes** (required for grade passback from Learnvelo activities)

Note: Sharing email allows Learnvelo to match LTI users with existing Learnvelo accounts, providing a seamless experience. Sharing name ensures student and instructor names display correctly in Learnvelo.

Tool Status

Approved
 Excluded

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.

INSTITUTION POLICIES

You can change the following settings for this tool. The fields use global values by default.

User Fields to Send

Role in Course
 Name
 Email Address

Allow grade service access Yes No

Allow Membership Service Access Yes No

Show User Acknowledgment Message Yes No

You can edit the user acknowledgment message when Membership Service is disabled

*Click **Submit** to proceed.*

Cancel
Submit

Blackboard Institution Policies

3e. Submit and Note the Deployment ID

1. Click **Submit** to save the configuration
2. Learnvelo will appear in the LTI Tool Providers list with status **Approved**
3. Note the **Default Deployment ID** shown on the Accept page (e.g., 235d1e88-1cb5-4c38-a296-75c80eafa370) – you will need this in Learnvelo

3f. Configure Placements

After the tool is registered, you need to create placements to control where Learnvelo appears for instructors:

1. In the LTI Tool Providers list, click the placements count link next to Learnvelo
2. Click **Create Placement**
3. Create placements for:
 - **Deep Linking content tool** – Enables the Learnvelo content picker
 - **Course content tool** – Enables adding Learnvelo content in courses


Success: Placement Created: Learnvelo.

Manage Placements: api.learnvelo.com

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

Create Placement

Synchronize Placements

NAME 	TYPE	URL
Learnvelo	Deep Linking content tool	https://api.learnvelo.com/api/lti/launch/

Displaying 1 to 1 of 1 items | [Show All](#) | [Edit Paging...](#)

Blackboard tool placements

Step 4: Enter Blackboard Configuration in Learnvelo

Switch back to your Learnvelo tab.

1. On the platform detail page, locate the **Platform Registration Details** section
2. Enter the following values:

Learnvelo Field	Value
Issuer URL	https://blackboard.com
Client ID	5fdb8bb0-b5a8-4c1e-b2e4-e7c5138abe37
OIDC Authorization Endpoint	https://developer.blackboard.com/api/v1/gateway/oidcauth
Your LMS JWKS URL	https://developer.blackboard.com/api/v1/management/applications/5fdb8bb0-b5a8-4c1e-b2e4-e7c5138abe37/jwks.json
OAuth 2.0 Token Endpoint	https://developer.blackboard.com/api/v1/gateway/oauth2/jwttoken

Note: For Blackboard SaaS, the Issuer URL is always https://blackboard.com. The Client ID and JWKS URL use Learnvelo’s Application ID, which is the same for all institutions.

3. Click **Verify JWKS** to test the connection
4. Click **Save**

Tip: The Platform Registration Details form is on the Learnvelo platform detail page. The fields and their values are listed in the table above.

Step 5: Add the Deployment ID

1. In Learnvelo, scroll to the **Deployment IDs** section on the platform detail page
2. Enter the Deployment ID from Blackboard (Step 3e)
3. Optionally add a label (e.g., “Main Campus”)
4. Click **Add**

The screenshot shows the 'Platform Registration Details' form with the following fields and values:

- JWKS URL:** `https://api.learnvelo.com/api/lti/jwks/9cb1dce1-786d-4f79-852d-9771144a8e2e/`
- Issuer URL:** (empty)
- Client ID:** (empty)
- OIDC Authorization Endpoint:** (empty)
- Your LMS JWKS URL:** (empty) with a **Verify JWKS** button next to it.
- OAuth 2.0 Token Endpoint:** (empty)

Below the registration details is the **Deployment IDs** section, which includes:

- Deployment ID:** (empty)
- Label (optional):** (empty)
- Add** button

Learnvelo Deployment IDs section

Step 6: Test the Connection

The Getting Started checklist on the platform detail page tracks your progress. Once all four steps are complete, your integration is ready.

To verify the connection end-to-end:

1. In Blackboard, navigate to any course as an instructor

2. Open a content area
 3. Click **Build Content** or **Tools > Learnvelo**
 4. The Learnvelo content picker should load, confirming the connection works
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Troubleshooting

“JWKS verification failed”

- Ensure the **LMS JWKS URL** contains the Blackboard developer JWKS URL with the correct Application ID
- The URL should be:
`https://developer.blackboard.com/api/v1/management/applications/5fdb8bb0-b5a8-4c1e-b2e4-e7c5138abe37/jwks.json`

“Integration Pending Approval”

Your institution must be approved by Learnvelo before LTI launches will work. Contact support@learnvelo.com if approval is taking longer than expected.

LTI launch shows a blank page or error

- Verify the **Issuer URL** is `https://blackboard.com` (for Blackboard SaaS)
- Verify the tool status is set to **Approved** in Blackboard
- Ensure placements are configured correctly
- Check that the Deployment ID in Learnvelo matches the one shown in Blackboard

Grade passback is not working

- Verify that the appropriate services are enabled in the Blackboard tool configuration
 - Ensure the content was linked using the Learnvelo deep linking tool
 - Check that grade passback was enabled during the deep linking content selection
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