

VHL Tool Registration Guide for D2L (Brightspace) Administrators

Audience

This document is intended for D2L system administrators. It provides information and steps required to set up an LTI Advantage integration with Vista Higher Learning's online platform VHLCentral (<https://www.vhlcentral.com>). The administrator must perform four steps:

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After an administrator completes these actions, Instructors then must follow the steps outlined in the [VHL Instructor Guide for D2L](#) to complete the final setup of deep-linking and grade passback functionality within their courses.

1. Register an External Learning Tool Link for LTI Advantage

IMPORTANT: To register a external learning tool, the D2L admin must have the following permissions enabled:

- **External Learning Tools**
 - Launch External Learning Tool Links
 - Manage External Learning Tool Providers
 - Create Quicklinks from available External Learning Tool links
 - Create External Learning Tool links from available External Learning Tool Providers
- **Manage Extensibility** → Can Manage Extensibility

Filter by Role: Filter by Tool:

Choose Org Unit Types

External Learning Tools	Organization	Course Template	Course Offering	Group	Semester	Section	Department
External Learning Tools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage External Learning Tools Configuration	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Launch External Learning Tool Links	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage and Delete External Learning Tool Links	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage External Learning Tool Providers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Create Quicklinks from available External Learning Tools links	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Create External Learning Tool Links from available External Learning Tool Providers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Edit Permissions - Administrator ▾

Filter by Role: ▾

Filter by Tool: ▾

Choose Org Unit Types

Manage Extensibility	Organization	Course Template	Course Offering	Group	Semester	Section	Department
Can Manage Extensibility	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A	N/A	N/A

If you are unable to access the menu items referenced in steps 1 and 2 below, please contact your institution's D2L super-admin. They will either need to enable those permissions for you or complete this registration for you.

1. From the **Admin Tools** menu, click **Manage Extensibility**.
2. In the **LTI Advantage** tab, click **Register Tool**. The **Register a Tool** page opens.

External Learning Tools Remote Plugins IMS Configuration Buy Courses App Finder ceLTic Access platform

ID Key Authorization OAuth 2.0 **LTI Advantage**

This list contains LTI Advantage tools registered by your institution.

All **Enabled** Disabled

3 items in the list.

<input type="checkbox"/>	Tool ▲	Last Modified Date	Status
<input type="checkbox"/>	CodeGrade The complete feedback environment for computer science.	6/15/2020	Enabled
<input type="checkbox"/>	IMS Certification Suite	7/23/2019	Enabled
<input type="checkbox"/>	You Attend You Attend	10/17/2019	Enabled

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3. Complete the following fields:

Name	VHLCentral
Description	Vista Higher Learning's online platform
Domain	https://www.vhlcentral.com
Redirect URLs	https://www.vhlcentral.com/lti/launches
OpenID Connect Login URL	https://www.vhlcentral.com/lti/login_initiations
Keyset URL	https://www.vhlcentral.com/lti/keys
Extensions	Enable the "Deep Linking" and "Assignment and Grade Services" extension.

Enabled



Name *

VHLCentral

Description

Vista Higher Learning's online platform

Domain *

https://www.vhlcentral.com

Redirect URLs *

https://www.vhlcentral.com/lti/launches



+ Add Redirect URL

OpenID Connect Login URL *

https://www.vhlcentral.com/lti/login_initiations

Keyset URL

https://www.vhlcentral.com/lti/keys

Extensions

- Assignment and Grade Services
- Deep Linking
- Names and Role Provisioning Services

4. Under **Roles**, choose to send IMS role data for the Institution and Context roles or only the Context role. If the **Send Institution Role** checkbox is checked, Context and Institution roles are included in the role mapping from the IMS configuration when the tool is launched. The user's Context Role is also included, unless the security setting at

the Deployment is set to Anonymous. If the **Send Institution Role** checkbox is unchecked, only Context roles are included.

The screenshot shows a configuration interface with three sections:

- Extensions:** A light blue box containing three checkboxes: Assignment and Grade Services, Deep Linking, and Names and Role Provisioning Services.
- Roles:** A section with a red arrow pointing to a checked checkbox labeled "Send Institution Role" and a help icon.
- Substitution Parameters:** A section header with no visible content.

Click **Register**. The **Brightspace Registration Details** dialog box will open showing the information for the tool.

The screenshot shows the "Brightspace Registration Details" dialog box with the following information:

- Client Id:** 2d016f27-e222-4967-bcb0-9128f4cac8d2 (with a copy icon)
- Brightspace Keyset URL:** https://partnershowcase.desire2learn.com/d2l/.well-known/jwks (with a copy icon)
- Brightspace OAuth2 Access Token URL:** https://auth.brightspace.com/core/connect/token (with a copy icon)
- OpenID Connect Authentication Endpoint:** https://partnershowcase.desire2learn.com/d2l/lti/authenticate (with a copy icon)
- Brightspace OAuth2 Audience:** https://api.brightspace.com/auth/token (with a copy icon)
- Issuer:** https://partnershowcase.desire2learn.com (with a copy icon)
- View Deployments:** A blue link.
- Done:** A blue button at the bottom left.
- Close:** A close icon at the bottom right.

We recommend highlighting the text in this dialog to copy and paste and then send to VHL Technical Support. If you have any problems with that, you could also take a screenshot of your confirmation to send to VHL Technical Support. Click **Done** to complete the Registration

process.

2. Deploy External Tool Link

1. Once you've successfully setup your External Tool link, you will be presented with the following screen where registered tools are listed:

The screenshot shows the D2L (Desire2Learn) interface for managing LTI Advantage tools. At the top, there is a navigation bar with the D2L logo and various utility icons. Below this is a blue navigation bar with links for External Learning Tools, Remote Plugins, IMS Configuration, Buy Courses, App Finder, ceLTic, and Access platform. The main content area is titled 'LTI Advantage' and contains a list of registered tools. The list is filtered to show 'Enabled' tools. The tools listed are CodeGrade, IMS Certification Suite, VHLCentral, and You Attend. The VHLCentral tool is highlighted in the list. Below the list, there are pagination controls showing '1 / 1' and '20 per page'.

External Learning Tools Remote Plugins IMS Configuration Buy Courses App Finder ceLTic Access platform

ID Key Authorization OAuth 2.0 **LTI Advantage**

This list contains LTI Advantage tools registered by your institution.

Register Tool Enable Disable

All Enabled Disabled

4 items in the list.

<input type="checkbox"/>	Tool ▲	Last Modified Date	Status
<input type="checkbox"/>	CodeGrade The complete feedback environment for computer science.	6/15/2020	Enabled
<input type="checkbox"/>	IMS Certification Suite	7/23/2019	Enabled
<input type="checkbox"/>	VHLCentral Vista Higher Learning's online platform	8/12/2020	Enabled
<input type="checkbox"/>	You Attend You Attend	10/17/2019	Enabled

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2. Click on the **VHL Central** tool listing to re-open the Edit VHLCentral page. Then scroll down to the bottom of the page and click on the **View Deployments** link (under Registration Details). The Deployments listing should open.

[+ Add Custom Parameter](#)

Brightspace Registration Details

Client Id

2d016f27-e222-4967-bcb0-9128f4cac8d2

Brightspace Keyset URL

https://partnershowcase.desire2learn.com/d2l/.well-known/jwks

Brightspace OAuth2 Access Token URL

https://auth.brightspace.com/core/connect/token

OpenID Connect Authentication Endpoint

https://partnershowcase.desire2learn.com/d2l/lti/authenticate

Brightspace OAuth2 Audience

https://api.brightspace.com/auth/token

Issuer

https://partnershowcase.desire2learn.com

[View Deployments](#)

[Save and Close](#) [Save](#) [Cancel](#)

3. Click **New Deployment** button and the Deploy Tool page will open.

The screenshot shows the D2L LTI Advantage deployment management interface. At the top, there is a navigation bar with the D2L logo and various utility icons. Below the navigation bar, there are tabs for "LTI Advantage", "Manage External Learning Tool Links", and "Manage Tool Providers". The "LTI Advantage" tab is active. In the main content area, there are buttons for "New Deployment", "Enable", and "Disable". Below these buttons, there are filters for "All", "Enabled", and "Disabled". A search bar is present on the right. The main content displays a table with 3 items in the list. The table has columns for "Deployment Name", "Registration Name", "Available Extensions", "Last Modified Date", and "Status".

<input type="checkbox"/>	Deployment Name ▲	Registration Name	Available Extensions	Last Modified Date	Status
<input type="checkbox"/>	CodeGrade	CodeGrade	<input checked="" type="checkbox"/> Assignment and Grade Services <input checked="" type="checkbox"/> Deep Linking <input checked="" type="checkbox"/> Names and Role Provisioning Services	6/15/2020	Enabled
<input type="checkbox"/>	IMS Cert	IMS Certification Suite		7/23/2019	Enabled
<input type="checkbox"/>	You Attend	You Attend		10/17/2019	Enabled

< 1 / 1 > 20 per page

4. Input the following
- Tool: VHL Central (from drop-down list)
 - Name: VHL Central Launch
 - Extensions (Check the following options):
 - Assignment and Grade Services
 - Deep Linking

Enabled

Tool *
 VHLCentral

Name *
 VHLCentral Launch

Description
 Deployment

Extensions
 Assignment and Grade Services
 Deep Linking
 Names and Role Provisioning Services

Security Settings
 Select the information to share with the tool:

Anonymous
 Org Unit Information
 User Information
 Name
 First Name
 Middle Name
 Last Name

5. Under **Security Settings** check the box for **Org Unit Information**.

Security Settings
 Select the information to share with the tool:

Anonymous
 Org Unit Information
 User Information
 Name
 First Name
 Middle Name
 Last Name
 Email
 User ID
 Username
 Org Defined Id
 Link Information
 Title

6. **Add Org Units** (at the bottom of the page) will allow you to control who sees the Vista External Tool, we suggest using the "All descendants" setting with whatever department or org unit you wish to limit access of the VHL Central tool to.

Add Org Units

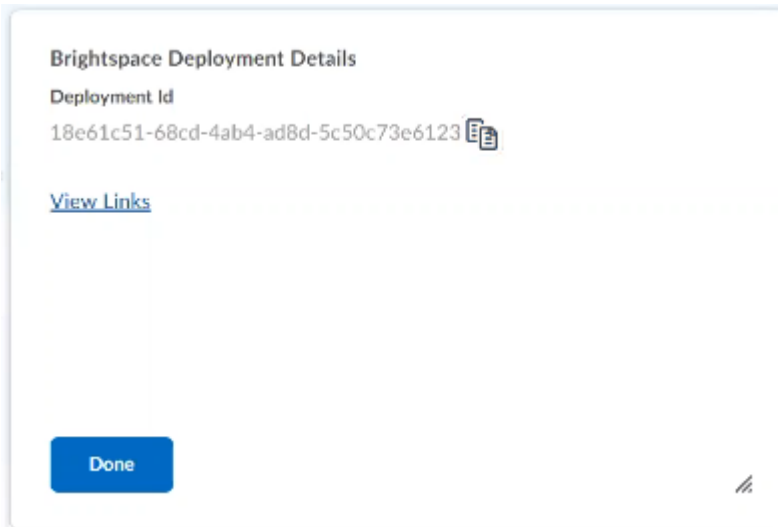


Filter by Org Unit Type

<input type="checkbox"/>	Name ▲ , Code	Type	Options
<input checked="" type="checkbox"/>	VHL, Vista Higher Learning	Course Template	<input type="radio"/> This org unit <input checked="" type="radio"/> All descendants
<input type="checkbox"/>	VHL Course, VHL Course	Course Offering	

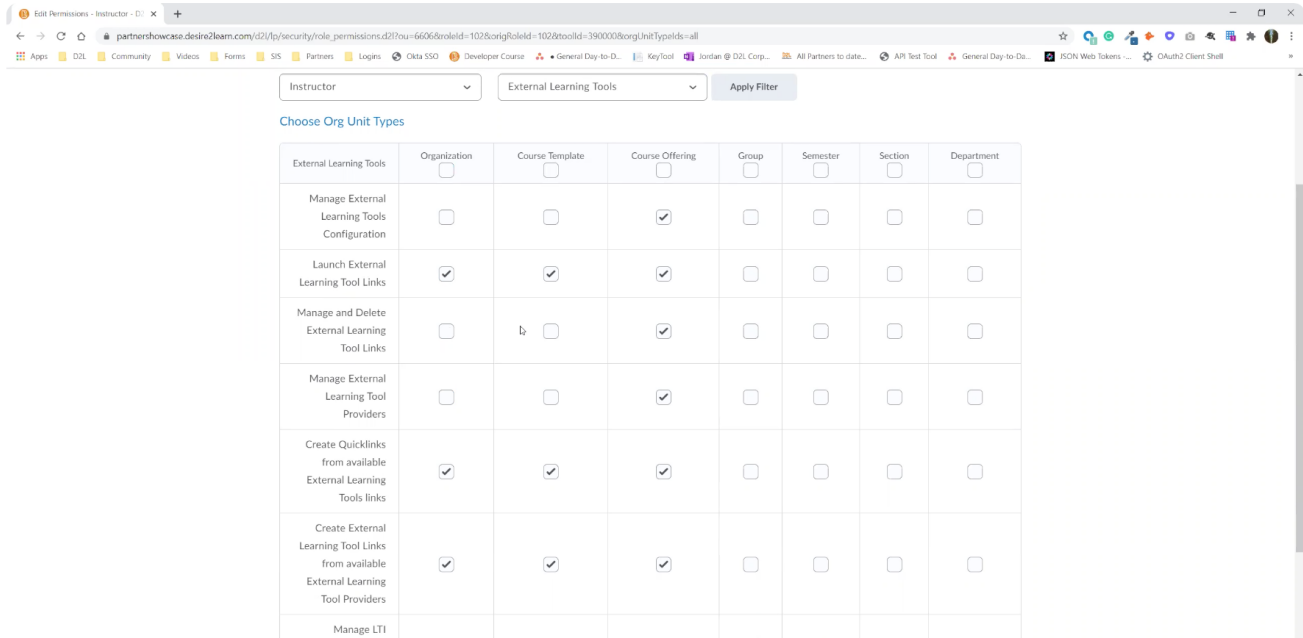
< 1 / 1 > 20 per page ▾

7. Select the **Create Deployment** button. A Brightspace Deployment Details dialog showing a Deployment id should appear confirming the deployment creation. There should also be a **View Links** link in that dialog. At this point you can either click Done or use the **View Links** link to go on the create a Quick Link (as described next).



3. QuickLink Setup

Important the following permissions must be enabled for the instructor to setup D2L quicklinks to VHL



NOTE: In recent versions of Brightspace, The **"Manage LTI Advantage Tool Registrations"** & **"Manage LTI Advantage Tool Deployments"** must be enabled through **EXTERNAL LEARNING TOOL Permissions**.

Manage LTI Advantage Tool Registrations	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manage LTI Advantage Tool Deployments	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Delete External Learning Tool Links	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage LTI Migrations	<input type="checkbox"/>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Download LTI Launches Data Set	<input type="checkbox"/>	N/A	N/A	N/A	N/A	N/A	N/A	N/A

1. As the admin or instructor navigate to the VHL tool deployment page.
2. Click **View Links** near the bottom of the page. (You can also use the View Links in the Brightspace Deployment Details dialog). The **Links** page will open.
3. Click the **New Link** button. The **Create Link** form will open.

Create Link

Enabled



Name *

VHL Quicklink

URL *

https://www.vhlcentral.com/lti/launches

Description

Example [Quicklink](#)

Type

Deep Linking Quicklink



Width

800

Height

600

4. Complete fields on the **Create Link** screen as follows:

- **Name:** VHL Quicklink.
- **URL:** https://www.vhlcentral.com/lti/launches
- **Description:** An optional description that will help users understand what this tool does.
- **Type:** Deep Linking Quick Link - **Width:** 980 and **Height:** 650
- **Substitution Parameters:** This can be left blank.
- **Custom Parameters:** This may be left blank

5. Click **Save and Close**.

4. Communicate Setup Details to VHL

IMPORTANT: This step must be completed before the tool integration will function.

After completing Tool Registration you will be presented with a confirmation that looks like the below. Simply copy and paste the text from here or take a screenshot and send to techsupport@vistahigherlearning.com - the details will vary per your registration

