

# Kaltura Video Building Block for Blackboard Learn Setup Guide

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Version: 5 for Blackboard Learn 9.x

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# Preface

This preface contains the following topics:

- [About this Guide](#)
- [Audience](#)
- [Prerequisite Reading](#)
- [Document Conventions](#)

## About this Guide

This guide describes how to setup the Kaltura Video Building Block for Blackboard Learn. Instructions are provided for setting up the building block's behavior and how to control user roles and permissions using the Kaltura Application Framework (KAF) Admin Console.



**NOTE:** Please refer to the official and latest product release notes for last-minute updates. Technical support may be obtained directly from: [Kaltura Customer Care](#).

**Contact Us:** Please send your documentation-related comments and feedback or report mistakes to [knowledge@kaltura.com](mailto:knowledge@kaltura.com). We are committed to improving our documentation and your feedback is important to us.

## Audience

This guide is intended for Blackboard and Kaltura administrators.

## Prerequisite Reading

- [Kaltura Video Building Block 5 for Blackboard Learn 9.x User Manual](#)
- [Kaltura Video Building Block 5 for Blackboard 9.x Installation and Upgrade Guide](#)

## Document Conventions

Kaltura uses the following admonitions:

- Note



**NOTE:** Identifies important information that contains helpful suggestions.

- Workflow



**Workflow:** Provides workflow information.

1. Step 1
2. Step 2

## Prerequisites

The following items are required to setup the Kaltura Video Building Block for Blackboard:

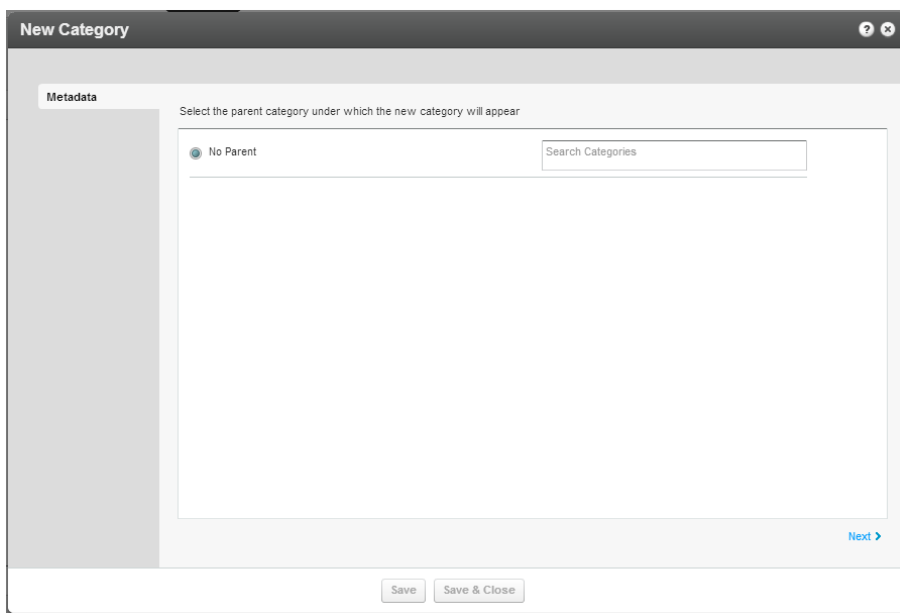
- Access to a Blackboard Learn environment with a system administrator permissions.
- A Kaltura account - Please contact your Kaltura representative for your Kaltura account details.
- Deployment of the Kaltura Video Building Block for Blackboard Learn on your Blackboard environment. For deployment instructions, see [Kaltura Video Building Block 5 for Blackboard 9.x Installation and Upgrade Guide](#).
- KAF Admin Console – please ask your Kaltura representative for credentials to access your KAF Admin Console instance.

## Before You Begin

You will need to create a Blackboard root category in the KMC.

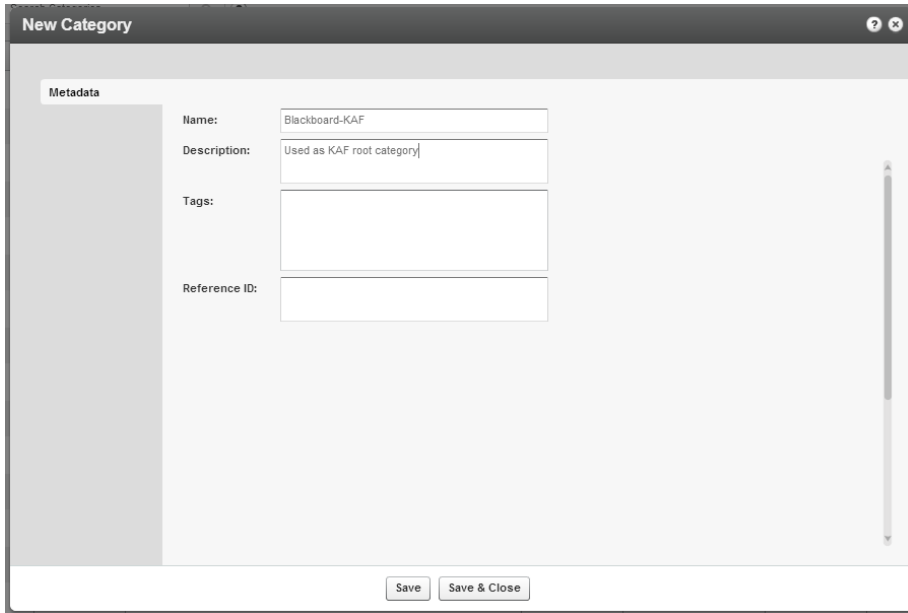
### To create the Blackboard root category in the KMC

1. Log into the KMC.
2. Select the **Content** tab and then select the **Categories** tab.
3. Click **Add Category**.
4. On the New Category window, select the position of the root category and save your new category.



5. Click **Next**.

6. In the metadata tab, enter metadata for your new category and click Save.



The screenshot shows a window titled "New Category" with a "Metadata" tab selected. The form contains the following fields:

- Name:** Blackboard-KAF
- Description:** Used as KAF root category
- Tags:** (empty text area)
- Reference ID:** (empty text field)

At the bottom of the window, there are two buttons: "Save" and "Save & Close".

# Understanding the Setup Process

The Kaltura Video Building Block for Blackboard Learn offers an out-of-the-box solution that enables users to view, record, upload, publish, search, and share video directly from their Blackboard Learn environment. This translates into time and money saved for your organization, improved student engagement, creativity and learning results, as well as ease of use for students, faculty and teaching assistants.

## The Kaltura Application Framework (KAF) Admin Console

The Kaltura Video Building Block for Blackboard Learn is implemented on top of the Kaltura Application Framework (KAF), a feature rich framework that allows flexible and streamlined integration of Kaltura’s video solution and products into 3<sup>rd</sup> party applications such as Blackboard Learn. KAF is hosted and served directly from the Kaltura cloud servers and once integrated into your Blackboard environment, presents different video components and workflows to users.

At the backend, the Kaltura Application Framework provides a flexible and extensible administration panel, called “KAF Admin Console”. The KAF Admin Console offers full control over the user experience and when interacting with videos inside Blackboard. Nearly all configuration aspects of the Kaltura Video Building Block for Blackboard Learn are configured through the KAF Admin Console.

Field Name	Value	Description
Hosted	Yes	Enable the Hosted module.
enableLike	No	Enable the 'Like' feature for entries.
allowEditPublished	Yes	Enable editing of published entries
allowDeletePublished	Yes	Enable deletion of published entries
enableEntryDelete	Yes	Enable deleting the media from MediaSpace
enablePresentations	Yes	Enable users to create and display video-presentations?
enableViews	No	Enable showing number of views per entry.
showPageTitles	Yes	Show page titles
expandButton	Auto	Player expand button. Auto is on only if there are modules providing an entry sidebar.
manPublish	Yes	Enable publish to a list of categories - from the menu, media, and upload. Disable this if you do not wish to publish to the list of categories.



## KAF Modules

Your KAF instance is composed of multiple **KAF modules**, such as “Application”, “Player”, and “Auth”. Each module controls a different aspect of your Kaltura Video Building Block. A KAF module is composed of a set of **configuration fields**. All KAF modules are listed on the left menu in your KAF Admin Console instance.



**NOTE:** Your KAF Admin Console may display modules and configuration fields that are not listed in this guide, some of which may be disabled. It is important that you do not modify the configuration of the disabled modules (and not enable them) without consulting with your Kaltura representative.

The following KAF modules are required for configuring the Kaltura Video Building Block for Blackboard Learn and are described in this guide:

- [Application](#)
- [Auth](#)
- [Categories](#)
- [Client](#)
- [Metadata](#)
- [Player](#)
- [Security](#)
- [SharedRepositories](#) (used for Faculty Repository)
- [Widgets](#)
- [Addcontent](#)
- [Captions](#)
- [Comments](#)
- [Customdata](#)
- [Embed](#)
- [Publish](#)
- [Screencapture](#)
- [Thumbnails](#)
- [Userreports](#)
- [Channelmoderation](#)
- [Audioentry](#)
- [Imageentry](#)
- [Videopresentation](#)
- [Blackboard](#)
- [Browseandembed](#)
- [Hosted](#)

# KAF Admin General Configuration



**Related KAF modules:** [Application](#), [Auth](#), [Client](#), [Security](#), [SharedRepositories](#), [Categories](#), [Addcontent](#), [Publish](#), [Browseandembed](#), [Blackboard](#), [Hosted](#)

## General Settings

Your KAF account comes pre-configured with the following settings. Items marked with \* **should not be** changed.

Module	Fields	Description
Application	InstanceId, privacyContext, userRoleProfile	Internal constant identifiers of your KAF instance.
Auth	sslSettings	All site (set to None if SSL is not used)
Client	serviceUrl	https://www.kaltura.com (set to http://www.kaltura.com if SSL is not used)
	VerifySSL	Yes (set to No if SSL is not used)
Security	allowLoadInIframe	Yes*
SharedRepositories	Enabled	Yes ((set to No if you want to disable the Faculty Repository)
Addcontent	enabled	Yes*
Userreports	enabled	Yes*
Publish	enabled	Yes*
Browseandembed	enabled	Yes*
Blackboard	enabled	Yes*
Hosted	enabled	Yes
	enabledEntryDelete	Set to <i>No</i> if you want to prevent users from editing entries after they have been published to a course Media Gallery or embedded using the Browse, Search and

Module	Fields	Description
		Embed module.
	allowEditPublished	Set to <i>No</i> if you want to prevent users from deleting entries after they have been published to a course Media Gallery or embedded using the Browse, Search and Embed module.
	enableEntryDelete	Set to <i>No</i> to completely prevent users from deleting entries.
	manPublish	Yes*
	authMethod	Lti

In addition, you will need to specify the root category you [created](#) under the Categories module.

Module	Fields	Description
Categories	rootCategory	Select the category you created in the KMC.

## Mandatory Configuration

After installing the Kaltura Video Building Block for Blackboard Learn you will need to specify the root category you [created](#) under the Categories module.

Module	Fields	Description
Categories	RootCategory	Select the category you created in the KMC.



**NOTE:** The root category should not be changed after the plugin is configured. It is okay to change the name of the root category in the KMC. It will automatically update in the KAF Admin Console.

Be certain that the sharedRepositoryCategoryId field is updated in the **Hosted** module. If it is not updated the following message is displayed:

sharedRepositoryCategoryId

**Your shared repository category requires mandatory update!**  
[Click here to update](#)

Click “Click here to update” to update the Shared Repository.



**NOTE:** This step is only required one time after installation or migration of the Kaltura Video Building Block for Blackboard Learn.

# KAF Admin Module Configuration

This section describes how to configure the KAF Modules.

## Playback



**NOTE:** Related KAF modules: [Audioentry](#), [Imageentry](#), [VideoPresentations](#)

## Player

Module	Fields	Description
Player	playerId	Choose the player to use when playing back videos in My Media and in Media Gallery.  Use a player id (uiConf id) from the list of players available in your KMC account (In KMC, go to Studio and select Players List.
	playerBarHeightPixels	The height (in pixels) of the player ui which is not part of the actual video (for example - the bottom bar)
	playerVideoRatioPercent	The ratio (in percent) of the video inside the player. Standard values: 16:9 = 56.25 , 4:3 = 75 , 16:10 = 62.5
	playerEditId	The player ID (uiConf ID) of the player that is used to edit entries.
	autoPlayOnLoad	Determines whether the video should start playing automatically when the player loads.
	playback	Which Playback method should KAF use? RTMP is the default and recommended value to use for playback. <ul style="list-style-type: none"> <li>• HTTP uses progressive download and is cached in the browser.</li> <li>• RTMP streams data and supports adaptive bitrates. RTMP is the default and recommended value.</li> <li>• RTMPE - an encrypted (secure) protocol base on RTMP.</li> <li>• Akamai HD Network allows adaptive bit-rate. The player can adjust the video quality on the fly</li> </ul>

Module	Fields	Description
		based on network and CPU conditions. Based on Akamai CDN technology.  Generally, HTTP provides a better user experience for seeking forward or backward, while RTMP provides better video quality. How quickly the video begins playing depends on caching, so first time play always begins faster using RTMP and subsequent play may begin faster using HTTP.
	playerModerationId	What is the player ID (uiConf ID) of the player shown in moderation pages?

## Audioentry

Module	Fields	Description
Audioentry	audioPlayerId	Player ID (uiConf ID) of the player that plays audio entries.
	audioPlayerHeight	What is the Height of the player that plays audios?

## Imageentry

Module	Fields	Description
Imageentry	imagePlayerId	Player ID (uiConf ID) of the player that shows images.
	imageWatermarkUrl	What is the URL of the image that should be used as watermark?

## Videopresentations

Module	Fields	Description
Videopresentations	enabled	Enable the Videopresentations module.
	sortMediaBy	By default, how should media in the gallery be sorted?
	kpwId	What is the widget ID (uiConf ID) of the Kaltura Video-Presentation Widget used in Blackboard Learn?
	kvpmDocUploadId	What is the uiConf ID of the Kaltura Document Upload widget? The Kaltura Document Upload widget is used by the Kaltura Video-Presentation widget.
	kvpmCreationId	What is the uiConf ID of the Kaltura Video-Presentation widget? The Video-Presentation widget enables users to synchronize video with

Module	Fields	Description
		PowerPoint presentations.



**NOTE:** To enable video presentation, please set enablePresentations to 'Yes' in the Hosted module.

## Content Authoring



**Related KAF modules:** [Widgets](#), [Screencapture](#), [Captions](#), [Thumbnails](#), [Metadata](#), [Customdata](#)

The KAF Admin Console provides great flexibility in configuring different authoring methods users can utilize for creating new content. To date, the following methods are available (with additional methods to be added in the future):

- Uploading media from the local machine
- Capturing a video from a webcam using the Kaltura Webcam Recorder (KRecord)
- Creating a Video Presentation
- Creating a new screencast using the Kaltura Screen Recorder (KSR)

Please refer to the [Kaltura Video Building Block 5 for Blackboard Learn 9.x User Manual](#) for more details about each of these methods.

+ Add New ▼

- 📺 Media Upload
- 📹 Webcam Recording
- 📽 Video Presentation
- 🖥 Screen Recording

### Media Upload

Please refer to [Roles and Permissions](#).

### Webcam Recording

Module	Fields	Description
Widgets	krecordId	The uiConf ID of the kRecord widget. KAF uses kRecord to record and upload video from a webcam.
	rtmpUrl	The URL of your RTMP Server. The URL is required for Webcam recording.

## Video Presentations

See [Video Presentations](#).

## Screen Recording

Module	Fields	Description
Screencapture	Enabled	Adds the “Screen Recording” option to the Add New menu.
	ksrId	What is the widget ID (uiConf ID) of the Kaltura Screen Recorder Widget (KSR) used in Blackboard Learn?
	videoBitrate	The video bitrate quality (in kbps) to use for the capture. For example 2000
	advancedOptionsEnabled	Enable the option to select frames per second by the user

## Captions

Enable the captions module to allow end users to upload captions to entries they own.

Module	Fields	Description
Captions	captionsKsuld	The uiConf ID of the Kaltura Simple Uploader (KSU) used for captions. KAF uses KSU to upload .SRT and .DFXP caption files.
	thumbnailRotator	Enable thumbnail image rotation on mouseover in captions search results
	entriesPageSize	How many entries are displayed as captions search results on each page? (The default is 10)
	captionsPageSize	How many caption lines are displayed for each entry in search results? (The default is 5)



**NOTE:** Regardless of the Captions settings, when captions are available for a video entry they are also available to the end user playing the video.

## Thumbnails

Enable the thumbnails module to allow end users to update thumbnails of entries they own.

Module	Fields	Description
Thumbnails	thumbnailsKsuld	The uiConf ID of the Kaltura Simple Uploader (KSU)



Module	Fields	Description
		used for thumbnails.
	extensionWhitelist	Define the allowed thumbnail extensions. Default values: jpg, jpeg, bmp, gif, tif, tiff, png

## Metadata

Use the Metadata and Customdata modules to define what types of metadata users are able to provide when uploading new content to their My Media or to a course Media Gallery.

Module	Fields	Description
Metadata	descriptionRequired	Require users to fill in the 'Description' field when uploading or editing media
	tagsRequired	Require users to fill in the 'Tags' field when uploading or editing media.
	readMoreEnabled	Enable/disable read more for entry description - shortening to 500 characters.
	metaDataInReadMore	If enabled metadata is hidden until clicking on 'read more...' works for all descriptions - entry/channel/category.
	basicNameFieldHelperText	Tooltip comment for the Name field when uploading or editing an entry.
	basicDescriptionFieldHelperText	Tooltip comment for the Name field when uploading or editing an entry.
	basicTagsFieldHelperText	Tooltip comment for the Tags field when uploading or editing an entry.
	showDescriptionInTooltipMeta	Choose whether to display the field's description as a tooltip.

## Customdata

Use the Customdata module to choose a custom metadata profile:

Module	Fields	Description
Customdata	enable	Enable the Customdata module.
	profileId	The ID of the custom metadata. Copy the custom data schema ID from KMC > Settings > Custom Data. ( <a href="http://www.kaltura.com/index.php/kmc/kmc4#account metadata">http://www.kaltura.com/index.php/kmc/kmc4#account metadata</a> )
	dateFormat	The format of the date for the date picker.
	requiredFields	The custom data fields required before publishing media. Use custom data system names from KMC > Settings > Custom Data ( <a href="http://www.kaltura.com/index.php/kmc/kmc4#account metadata">http://www.kaltura.com/index.php/kmc/kmc4#account metadata</a> )
	privateFields	The custom data fields that are not displayed in Blackboard Learn. Use the custom data system names from KMC > Settings > Custom Data.

Module	Fields	Description
		( <a href="http://www.kaltura.com/index.php/kmc/kmc4#account metadata">http://www.kaltura.com/index.php/kmc/kmc4#account metadata</a> ). Note: Private custom data fields are not hidden when the media owner accesses media from My Media.

## Content Sharing and Publishing



**Related KAF modules:** ChannelModeration

### ChannelModeration

Module	Fields	Description
ChannelModeration	forceModeration	Force moderation on every new channel creation.
	moderationDefaultValue	Default value when moderation checkbox is enabled

### SharedRepositories



**Related KAF modules:** SharedRepositories

The SharedRepositories module controls the behavior of the Faculty Repository of the Kaltura Video Building Block.

Faculty Repository metadata is used to facilitate searching and finding relevant media for the user. The Faculty Repository metadata is comprised of two types of metadata in Kaltura:

- Field of study filters – represented as a categories branch in Kaltura
- Additional textual fields – defined as a Custom Data Schema in Kaltura

Both types of metadata can be edited and redefined in the Kaltura Management Console (KMC). Kaltura administrators are encouraged to configure the metadata that suits the needs of their institution when enabling the Faculty Repository.

- To define the Field of Study taxonomy, we recommend that you create categories in a tree structure as a child of the nestedFilters root category category, as defined in the [Kaltura Management Console \(KMC\) User Manual](#). For instructions on how to define categories in the KMC, refer to [How to create and manage content categories?](#)
- To define the additional text fields, create a schema and add the name of the field with acceptable values. For instructions on how to define custom data schema refer to the [What Fields Can Be Configured in Kaltura Custom Metadata Profiles](#).

Each field type in the schema is represented in the Faculty Repository in the following way:

- Text field - represented as a text field
- Text Select List field with possible single value - represented as a dropdown
- Text Select List field with unlimited maximum number of values - represented as a multi-select box

Other types of fields are not supported in the Faculty Repository module and will not be represented.

Module	Fields	Description
SharedRepositories	enabled	Enabled Shared Repositories on the instance. This is required for the Faculty Repository.
	amountOfSharedRepositories	This field is ignored by the Blackboard integration.
	termsOfUseLink	Link to terms of use page. This appears when a user is contributing content to the Faculty Repository.
	nestedFilters	Whether to require nested filters for the Fields of Study.  Nested Filters are implemented as categories in the KMC. Configure them as nested categories under root>site category in your KMC.
	customDataProfileId	Advanced metadata used for searching for content in the Faculty Repository. Choose custom metadata schema for media from one of the schemas defined in your KMS account under Settings > Custom Data.
	requiredFields	Define which custom metadata fields are required before publishing media to the Faculty Repository
	dateFormat	Define the format of date fields in custom metadata fields.

## Comments



**Related KAF modules:** Comments

The Comments module is used to enable users to add comments to videos and to have conversations around published entries. By default, all comments are public and are visible to all viewers of the entry. For example, if a video is shared in two courses, Course A and Course B, and a student in Course B adds a comment to the video, the comment will be visible to members of Course A. A course owner may choose to keep all comments for the course videos, private, however, public comments from other courses will be visible.

Module	Fields	Description
Comments	enable	Enable the Comments module.
	channelCommentsProfileId	Custom Metadata profile Id for entries
	entryCommentsCountProfileId	Custom Metadata profile Id for entry comments count
	commentAllowed	Defines who can add comments. See <a href="#">Roles and Permissions</a> .
	pageSize	Number of comments to display.

Module	Fields	Description
	sort	Sort comments by newest or oldest first.
	sortReplies	Sort replies by newest or oldest first.
	allowClose	Allows content owners to disable/close comments for particular entries.
	showInGalleries	Enable/disable showing of comments for entries in the gallery page
	showInChannels	Enable/disable showing of comments for entries in the channels page
	showInChannelsOnly	Show comments in for entries in the channels page
	showAddTimedCommentsCheckbox	Show Add comment at mm:ss checkbox.
	showPrivateCommentsConfig	Show configuration for setting private comments per gallery/channel.

## Video Embeds



Related KAF modules: [Embed](#), [Browseandembed](#)

### Embed

The embed module is used to allow grabbing a player embed code of video to allow embedding them on external sites. A player embed code can be grabbed from a user's personal My Media page or from a course Media Gallery.

Module	Fields	Description
Embed	enable	Yes (set to No to prevent users from grabbing embeds of videos)
	secureEmbed	No*
	showMediaURL	No*
	embedAllowed	<p>Determines who can grab an embed code:</p> <ul style="list-style-type: none"> <li>Owner Only – Only the owner of the content can grab a player embed code.</li> <li>viewerRole/privateOnlyRole / adminRole – select which roles can grab embeds of videos.</li> </ul> <p>Note: If Owner Only is checked, all other checkboxes should be unchecked.</p> <p>Note: anonymousRole &amp; unmoderatedAdminRole – are ignored by KAF</p>
	embedSkins	Define the list of player templates to the user can choose from when grabbing a player

Module	Fields	Description
		embed
	embedSizes, audioEmbedSizes	Define the list of player sizes to the user can choose from when grabbing a player embed

## Browseandembed

The Browseandembed KAF module is used to enable and configure the Browse, Search and Embed tool in Blackboard Learn. This tool is used in the following places:

- Kaltura Video Presentation
- Kaltura Video Resource
- Video submissions in a Kaltura Media Assignment
- Video embeds in TinyMCE elements across the site

Module	Fields	Description
Browseandembed	enable	Yes*
	returnUrlMethod	POST*
	allowEmbedFromMultipleCourses	When set to Yes, users will be able to embed videos from Media Galleries of all the courses they have access to. Set to No if you want to limit users to the Media Gallery of the current course only.
	filterTypeAttribute	custom_filter_type*
	disableAddNewAttribute	custom_disable_add_new*
	embedSkins, embedSizes, audioEmbedembed	Deprecated

# Roles and Permissions



Related KAF modules: [Hosted](#)

See [Common Use Cases of Roles Configuration](#) for recommendations for common role configurations in the Kaltura Video Building Block for Blackboard Learn.

## Introduction to Role Mapping

The Kaltura Video Building Block for Blackboard Learn implements role mapping from Blackboard Learn roles to Kaltura roles via [LIS roles](#). Each role that is assigned to a user in Blackboard Learn is mapped to one of the roles defined in the [LIS standard](#). When a user is assigned with a role in a Blackboard Learn course – Student or Teacher for example – the Kaltura Building Block translates this role to an LIS role which is then sent to KAF. On KAF's side, a dedicated module provides flexible mapping between LIS roles and Kaltura roles, allowing a granular control over the behaviour of the different components of the Kaltura Building Block.

This process is described in the following workflow:



### Workflow:

1. Users are [assigned a Blackboard Institution, System, or course-level](#) role.
2. [The Building Block maps the corresponding LIS role to Kaltura.](#)
3. [KAF Grants Permissions](#) according to mapping.

## Assigning Roles in Blackboard Learn

To learn more about roles management in Blackboard Learn, please refer to this [manual](#).

## Mapping Blackboard Learn Roles to LIS roles

The Kaltura Building Block maps institution, system and course-level roles to LIS roles based on mapping tables that are available under the building block setting page. Login as a System Admin in Blackboard Learn then go to *System Admin > Building Blocks > Installed Tools > Kaltura Integration > Settings > Kaltura Video Building Block Role Mapping*.

The following options appear:

### Institution-wide Role Mapping

This table allows you to choose the role mapping for users **outside of the context of a course**. The default institution role mapping is provided. Each row represents a Blackboard Learn Institution role, and each column represents the possible LIS roles.

## Roles and Permissions

### INSTITUTION-WIDE ROLE MAPPING

Institution Role Name	Instructor	Content Developer	Teaching Assistant	Learner	Mentor
Student	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Faculty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Staff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alumni	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prospective Student	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Observer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

When new custom Institution Roles are added in Blackboard Learn, they automatically appear in the table.

### Send administrator role?

Check this option if you want to send the LIS role “Administrator” to the Blackboard Learn System Administrator.

When checked, the Administrator role will be sent for Blackboard System administrators **regardless of their Institution or Course-level roles**. Use this option to enforce role mapping override for system administrators.



**NOTE:** Other system roles are not mapped by the Kaltura Building Block by default.

### Send secondary roles?

Check this option if you want the Kaltura Building Block to send secondary Institution roles.

In case more than one LIS roles are sent to KAF, the **highest** level role will be used.

### System-wide Role Mapping

The following table allows you to choose the role mapping for users **outside of the context of a course** in addition to the Institution-wide role mapping. When Institution roles are not available, system roles may be used to map roles outside of course context. Each row represents a Blackboard Learn System role, and each column represents the possible LIS roles. The default settings do not send system roles. System Roles should be used only in cases where Institution roles are not available.

### SYSTEM-WIDE ROLE MAPPING

System Role Name	Instructor	Content Developer	Teaching Assistant	Learner	Mentor
System Administrator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System Support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Course Administrator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
User Administrator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Observer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community Administrator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System oded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System oded2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
New sys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

When new custom System Roles are added in Blackboard Learn, they automatically appear in the table.

### Send system roles?

Check this option if you want the Kaltura Building Block to send the system roles mapping to KAF. In case more than one LIS roles are sent to KAF (Institution roles and System roles mapping), the **highest** level

role will be used.

### Send secondary roles?

Check this option if you want the Kaltura Building Block to send secondary System roles. In case more than one LIS roles are sent to KAF, the **highest** level role will be used.

### Course-Level Role Mapping

This table allows you to choose the role mapping for users **inside the context of courses**. The default institution role mapping is listed.

Role ID	Role Name in Courses	Instructor	Content Developer	Teaching Assistant	Learner	Mentor
P	Instructor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T	Teaching Assistant	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Course Builder	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	Grader	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S	Student	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
U	Guest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### KAF Grants Permissions According to the Mapping

On the KAF Admin Console side, each LIS role is mapped back to Kaltura roles. KAF grants different permissions according to the mapping provided in the Hosted module in the KAF Admin Console:

**ItiRolesMapping**

Map each LTI role to a MediaSpace role

1 **DELETE**

ItiRole:  LIS role sent by the building block, according to the user's role in Blackboard

kmsRole:  KAF Applicative role, set the KAF administrator to define permissions OUTSIDE of course context (e.g., My Media)

kmsContextualRole:  KAF Contextual role, set by the KAF administrator to define permissions INSIDE course context (e.g., Media Gallery)

allowed SharedRepository:  Defines whether this role has access to the shared repository inside the Faculty Repository module and inside the Browse, Search and Embed module (in Mashup items)

2 **DELETE**

ItiRole:

kmsRole:

kmsContextualRole:

allowed SharedRepository:

As displayed, each LIS role is mapped in Kaltura to two roles – an **Applicative Role** (kmsRole) and a **Contextual Role** (kmsContextualRole). These roles correspond to different cases/scenarios in the Kaltura Building Block for Blackboard Learn. Setting these roles changes the permissions a user has in the following scenarios:



- **Applicative role (KMSRole)** - Defines the user roles and permissions in Kaltura widgets that are out of course context (for example: My Media)
  - **anonymousRole** – Not relevant to the Kaltura Building Block for Blackboard Learn and should not be used.
  - **viewerRole** – The user will not have access to My Media, and will not be able to upload new content to either My Media, Media Gallery or using the Embed Kaltura Media text-editor button.
  - **privateOnlyRole** – The user will have access to My Media and will have the ability to create new content.
  - **adminRole, unmoderatedAdminRole** – Not relevant to the Kaltura Building Block for Blackboard Learn and should not be used.
- **Contextual role (KMScontextualrole)** - Defines the user roles and permission in Kaltura widgets when in a course context (for example: course Media Gallery)
  - **Member:** The user will be able to view content in Media Galleries of courses to which the user is enrolled, but will not be able to contribute (publish) to the galleries.
  - **Contributor:** The user has Member permissions with the ability to publish content to the Media Gallery.
  - **Moderator:** The user has Contributor permissions with the ability to moderate content added to the Media Gallery.
  - **Manager:** The user has Moderator permissions with the ability edit the Media Gallery settings, and view the course gallery analytics.

From the Kaltura module’s perspective, the permissions are as follows:

- **My Media**
  - **Applicative role:** If viewerRole, the user will not have access to My Media and will not be able to upload new content. If privateOnlyRole the user will be able to have its own My Media repository to where he can upload his own private content.
  - **Contextual role:** does not impact My Media.
- **Media Gallery**
  - **Applicative role:** If the user has a contextual role that allows publishing/adding content to the Media Gallery (see the following table), and the user has an Applicative role of **privateOnlyRole**, the user will be able to upload new content or contribute content from its own private My Media repository.
  - **Contextual role:** Determines the role of the user inside the Media Gallery (note – users can access a course Media Gallery after they have access to the course page in Blackboard Learn, regardless of their Kaltura role).

Role	Permissions
Member	If the user has <b>Member</b> contextual role, the user will be treated as a “viewer only” in the Media Gallery, and will only be able to view content, and will not be able to contribute content to the Gallery (regardless of the user’s Applicative role).
Contributor	Users with <b>Contributor</b> role can view Media Gallery entries and upload and contribute entries from My Media (if applicative role is privateOnlyRole). Students are usually assigned Member or Contributor contextual roles.

Role	Permissions
Moderator	<b>Moderator</b> role allows the users to moderate content published to a Media Gallery (and to contribute new content). Teaching Assistants usually have Moderator contextual roles.
Manager	A <b>Manager</b> role provides full access to the Media Gallery, including the ability to moderate content, edit the Media Gallery's settings and metadata, and access the Media Gallery Analytics. Instructors usually have Manager contextual roles

- **Browse, Search and Embed** (rich-text editor button)
  - **Applicative role:** If **viewerRole**, the user will not have access to My Media and will not be able to create new content. If **privateOnlyRole** the user will be able to have their own My Media repository to where they can upload their private content.
  - **Contextual role:** does not impact Embed Kaltura Video.

## Common Use Cases of Role Configuration

This section provides recommendations for common role configuration in the Kaltura Video Building Block for Blackboard Learn.

The following use cases are described:

- [Allowing Students to Upload Content](#)
- [Allowing Faculty Only to Upload and Create New Content](#)
- [Creating a Teachers Only Faculty Repository](#)

### Allowing Students to Upload Content

**Description:** Allow all Blackboard Learn users to author new content (upload, webcam recording, screencast recording, etc.) and publish to courses, Media Galleries, regardless of their contextual role.

### Blackboard-Learn Side Configuration

- Map students' institutional (and/or system) and course-level roles to *Learner*.
- Make sure the My Media Module is available to all users: As a system administrator go to *System Admin > Tabs and Modules > Modules > My Media > Module Properties* and set the module availability under the *Availability* section:

## Roles and Permissions

System Availability  Yes  No

Available for Use on a Course Module Page  Yes  No

Available for Use on an Organization Module Page  Yes  No

Available for Users to Select from Module List  Yes  No

Available to  Everyone  Specific Roles

Items to Select

- Alumni
- Faculty
- Guest
- Observer
- Other
- Prospective Student
- Role 10

Selected Items

Invert Selection Select All

Invert Selection Select All

## KAF Side Configuration

In your KAF instance, configure the following mapping under the Hosted module:

ItiRole	kmsRole	kmsContextualRole
Learner	privateOnlyRole	CONTRIBUTOR
Instructor	privateOnlyRole	MANAGER

## Allowing Faculty Only to Upload and Create New Content

**Description:** Allow only faculty members to create and upload new media. Students should not have access to My Media and should not be able to contribute to any course Media Gallery.

## Blackboard Learn-Side Configuration

To accomplish this configuration, the My Media link should be available only to faculty members. It is important to hide the My Media link - if students are able to access the My Media link, an “Access Denied” message will be displayed as they are prevented from accessing My Media by the KAF-side configuration (see below).

### To hide My Media from students

1. Log into Blackboard Learn as a system administrator.
2. Go to System Admin > Tabs and Modules > Modules > My Media > Module Properties.
3. Under Available To, choose “Specific Roles” and select the desired roles. Make sure that Student is **not** included.

Available to

Everyone  
 Specific Roles

Items to Select	Selected Items
Student	Alumni Faculty Guest Observer Other Prospective Student Role 10
<input type="button" value="Invert Selection"/> <input type="button" value="Select All"/>	<input type="button" value="Invert Selection"/> <input type="button" value="Select All"/>

## KAF Side Configuration

In your KAF instance, configure the following mapping under the Hosted module:

ItiRole	kmsRole	kmsContextualRole
Learner	viewRole	MEMBER
Instructor	privateOnlyRole	MANAGER

## Creating a Teachers Only Faculty Repository

**Description:** Creating a cross-site, shared repository accessible to faculty only. Only faculty members will have the capability to share common files among multiple courses.



**NOTE:** For more information on the Faculty Repository, please refer to [Kaltura Video Building Block 5 for Blackboard Learn 9.x User Manual](#).

## Blackboard Learn Side Configuration

Add the Faculty Repository module to the Institution homepage and make it available to Faculty members only.

### To add the Faculty Repository Module to the Institution Home Page

1. Log into Blackboard Learn as a system administrator.
2. Under My Institution click the Add Module button.
3. Under Other look for the Faculty Repository module and click Add.
4. Click OK.

### To hide the Faculty Repository module from students

1. Log into Blackboard as a system administrator.
2. Go to System Admin > Tabs and Modules > Modules > Faculty Repository > Module Properties.
3. Under Available To, choose “Specific Roles” and select the desired roles. Make sure that Student is **not** included.

## Roles and Permissions

Available to

- Everyone  
 Specific Roles

Items to Select	Selected Items
Student	Alumni Faculty Guest Observer Other Prospective Student Role 10
<input type="button" value="Invert Selection"/> <input type="button" value="Select All"/>	<input type="button" value="Invert Selection"/> <input type="button" value="Select All"/>

## KAF-side Configuration

In the Hosted module turn off the shared repository for the *Learner* LTI role if enabled.

3 <input type="button" value="DELETE"/>	
litiRole	<input type="text" value="Learner"/>
kmsRole	<input type="text" value="viewerRole"/>
kmsContextualRole	<input type="text" value="CONTRIBUTOR"/>
allowedSharedRepository	<input type="text" value="No"/>