

Kaltura Video Module for Drupal 7.x User Manual

Version: 2.0

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Preface

This preface contains the following topics:

- [About this Manual](#)
- [Audience](#)
- [Document Conventions](#)
- [Related Documentation](#)

About this Manual

This manual contains useful information about how to use the Kaltura Video Module for Drupal 7.x. Kaltura provides modules for both Drupal 6 and 7, however the instructions in this manual are specifically for use with the Kaltura Video Module for Drupal 7.



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

Contact Us:

Please send your documentation-related comments and feedback or report mistakes to knowledge@kaltura.com.

We are committed to improving our documentation and your feedback is important to us.

Audience

This manual is primarily intended for Drupal administrators. The manual assumes familiarity with Drupal 7 and focuses on operations specific to Kaltura Video Module, while standard Drupal 7 operations that are associated are mentioned in brief.

Document Conventions

Kaltura uses the following admonitions:

- Note
- Workflow



NOTE: Identifies important information that contains helpful suggestions.



Workflow: Provides workflow information.

1. Step 1
2. Step 2

Related Documentation

For more documentation on Drupal, please visit [Drupal community documentation](#).

Overview of the Kaltura Video Module for Drupal

Kaltura's Video Module for Drupal makes it easy to add the robust capabilities of Kaltura's open source video platform to any Drupal site.

The Kaltura Video Module for Drupal handles every aspect of your video and rich-media needs, including transcoding, uploading and importing content, hosting and streaming on Kaltura's servers, and more. The module was developed specifically for Drupal, and seamlessly integrates with other features and modules, such as fields, cron, views, blocks, and Drupal permissions.

Kaltura Module for Drupal Key Features

- Empower Drupal websites with a full video and rich media experience
- Upload media in any format – videos will be transcoded to web-playable formats by the Kaltura system
- Host content by Kaltura and stream content from tier 1 global CDNs such as Akamai and Limelight Networks through Kaltura's full integration with them - to assure quality of service, and minimize overhead
- Full metadata synced between Kaltura and the Drupal site
- Easily add rich media to existing content types using Kaltura Media Field representation of rich media
- Fully integrate with Drupal Views - including predefined views to ease integration
- Enhance user interaction by allowing users to add video comments with one click on any page
- Collect statistics – number of plays for each video collected and updated on the video node
- Control Drupal permissions integration – an administrator can decide who can view and who can edit content

Getting Started

Download the Kaltura Video Module for Drupal 7.x at: <http://drupal.org/project/kaltura>. Continue to install the module as you would for any Drupal module and then activate the module.



NOTE: Additional dependent modules are required to complete the installation. Required modules are [ctools](#), [Entity API](#), [Libraries](#), and [Views](#).

The module also requires the Kaltura SDK library, which should be installed into the `/sites/all/libraries/KalturaClient` directory. You can use Drush commands to install it automatically:

drush kaltura-client-install

Configuring the Kaltura Video Module

After you install the module, you will need to activate the module with your Kaltura account.

Activating the Module to Work with your Kaltura Account

To activate the Drupal module with your Kaltura account

1. [Set the server settings](#). - Select the Kaltura Server that you want to use.
2. [Select the Notification URL \(Optional\)](#).
3. [Select the Partner to use](#). Create a publisher account or associate the module to an existing publisher account in Kaltura.
4. Accept the Kaltura service Terms of Use.
5. Click Submit.

To select the Server Settings

1. Select the Configuration menu.
2. In the Media section, select Kaltura module settings.
3. Enter the Server URL.

To select the Notification URL

1. Select the Configuration menu.
2. In the Media section, select Kaltura module settings.
3. Enter the Notification URL (optional). See [Synchronizing the Kaltura Publisher Account to Drupal](#) for more information.

To select the a Partner (publisher account) to use

1. Select the Configuration menu.
2. In the Media section, select Kaltura module settings.
3. Select a partner. This toggle associates the module to the publisher account. You can select either:
 - **New** - [Create a publisher account from the Drupal site](#).
 - **Existing** - [Enter your user name and credentials of your existing Kaltura account](#).

Server URL

If you are working against Kaltura SaaS, leave this setting as it is.
Otherwise, if you are working against a Kaltura CE or Kaltura On-Prem server, type the server URL here.

Notification URL

server notifications allows the Kaltura video platform to update your Drupal server about the status of the media content. This is especially useful when uploading content in various formats that needs to be transcoded. In order to support server side notifications, your server must be publicly available on the internet. The notification URL is where notifications are sent to and where a notification handler script resides.

Partner


☐ Existing

To create a publisher account using Drupal

- ▼ NEW PARTNER REGISTRATION

Enterprise / Small Business / Government Agency

Afganistan 

Yes 

submit

- Kaltura Video Module for Drupal 7.x User Manual

Using an Existing Publisher Account

To create a publisher account using Drupal

1. Select the Configuration menu.
2. In the Media section, select Kaltura module settings.
3. In the Partner section, choose Existing.
4. The Existing Partner Registration section is displayed.

▼ **EXISTING PARTNER REGISTRATION**

Partner ID

E-Mail

Password

☐ I accept [The Kaltura service Terms of Use](#) *

submit

5. Enter your Kaltura Partner ID, the login email, and password for your Kaltura account.
6. Accept the Kaltura service Terms of Use.
7. Click Submit.



NOTE: E-Mail and Password in this form are only used once for the initial connection and are not stored in Drupal after that. Secret key retrieved from KMC is used for all API calls going forward.

Kaltura Media Fields

Kaltura integrates with Drupal 7 at a field level, providing the granularity for integration with a variety of Drupal implementations. As other fields in Drupal, the Kaltura Media Field may be added to content types, comments, user profiles, and all other types of blocks of content.

The Kaltura Media field may be configured to allow certain media types (i.e. video, audio, image), for different display options, and for different media contribution options. These configuration options synergize with Drupal's innate field and content types configuration, like permissions and displays, and together enable you to easily build the media use-cases that apply to you.

Using the Kaltura Media Field in a Content Type

This section contains the following topics:

- [Adding the Kaltura Media Field](#)
- [Configuring Settings for the Kaltura Media Field](#)
- [Kaltura Media Field Contribution Elements](#)
- [Managing the Content Type Display](#)
- [Populating Kaltura Media Fields with Content](#)

Adding the Kaltura Media Field

To add the Kaltura Media Field

1. Select the Structure tab and in the Label column, select a Content type.
2. In the Operations column, select Manage Fields. The Manage Fields tab is displayed.
3. Enter a field name in the Add new field box.
4. In the Name column, enter the name of the field in lower case. This is the field name that Drupal will identify.
5. In the Field column, select **Kaltura Media field**.
6. Select a widget from the Widget column drop down. (See [Widget Types](#)). The widget you select forms the appropriate element to edit your data.
7. Click Save and continue to configure the settings for the Kaltura Media field. Depending on your widget choice, a configuration window for the field is displayed.

The following is an example of a Kaltura Media field created for uploading video only.

Add new field			
new_field_video_only	field_video_only	Kaltura Media field	Video only widget
Label	Field name (a-z, 0-9, _)	Type of data to store.	Form element to edit the data.

Configuring Settings for the Kaltura Media Field

This section describes the options and settings for the Kaltura Media field. All Kaltura features, such as setting the conversion profile and CDN configuration, work out of the box and can be set within the Kaltura Management Console. See the [KMC User Manual](#) for more information.

Kaltura Media Field Contribution Elements

You can define two types of contribution elements for the Kaltura Media field:

- [Widget Types](#)
- [Add Media Settings](#)

Widget Types

The widget determines the types of media you can upload to the Kaltura Media field. This applies to both uploading new content from the Kaltura Contribution Wizard and re-using existing content. The following lists the types of widgets that you can set for a Kaltura Media Field.

- [Video Only](#) – allows you to upload only videos through the Kaltura Contribution Wizard. Use only when the Add Media Settings are set to Add new media.
- [Audio Only](#) - allows you to upload only audio files through the Kaltura Contribution Wizard. Use only when the Add Media Settings are set to Add new media.
- [Image Only](#) - allows you to upload only image files through the Kaltura Contribution Wizard. Use only when the Add Media Settings are set to Add new media.
- [All Media Types](#) - allows you to upload all three types of content - video, audio, and images - through the Kaltura Contribution Wizard

Add Media Settings

The Add Media Settings options are dependent on the widget type selected when you define the Kaltura Media field. The following settings are available:

- **Add new media only** - allows you to upload new media only
- **Use existing media only** - allows you to choose from uploaded and synced content only
- **Use existing media and add new media** – allows you to upload new media and choose from existing uploaded content

When you add new media, content is uploaded to your Kaltura account as well as synced to the Drupal database.



To change the widget type

1. Select the Structure tab and then select a content type.
2. In the Operations column, select Manage Fields.
3. In the Widget column, click on the widget type. The Change Widget panel is displayed.

CHANGE WIDGET

Widget type *

- image only widget
- Video only widget
- audio only widget
- image only widget
- All media types widget
- Webcam widget

Continue

You would like to present to the user when creating this field in the *DZ_Content_Type* type.

4. Change the Widget type and click Continue.

Video Only

To configure the Kaltura Media Field settings for the video only widget


1. In the Manage Fields tab, click on edit in the Operations column.
2. Configure the following field settings:
 - o PLAYER SETTINGS

These settings apply to the *video_field* field everywhere it is used.

PLAYER SETTINGS

Video Player

Light



Create new player

Player Width

400

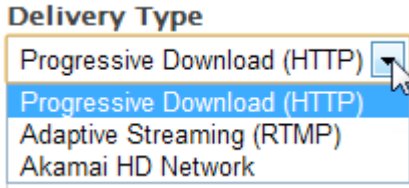
Player Height

330

Delivery Type

Progressive Download (HTTP)

▶ **ADVANCED**

Name	Description	Comments
Video Player	Select a player from the list of players that are configured in your KMC.	
Create new player	Click to create a new player in the KMC.	You will be prompted for your Kaltura credentials to access your KMC account.
Player Width	You can change the player Width to accommodate your display per field. Default value: 400	Sets the default value for this field. This value may be overridden in the display settings per field instance,
Player Height	You can change the player Height to accommodate your display per field. Default value: 330	Sets the default value for this field. This value may be overridden in the display settings per field instance,
Delivery Type	Select from the dropdown options: 	See the KMC User Manual for more information.
Advanced	Click Advanced to choose a player that is not configured in your Kaltura account. The advanced option opens the Custom Player UI_Conf field where you can enter the UIconf ID for the player you want to use.	This option is intended for advanced Kaltura users and for Kaltura support and administrators.

○ THUMBNAIL SETTINGS

This section is relevant when selecting a thumbnail display for the Kaltura Media field. See [Managing the Content Type Display](#).

THUMBNAIL SETTINGS

Note – these settings will only apply when choosing "Thumbnail" display

Thumbnail Width

Thumbnail Height

☐ Rotate Thumbnails for Video Items

Name	Description	Comments
Thumbnail Width	Enter the thumbnail width. Default value: 80	Sets the default value for this field. It can be overridden in the display settings per field instance.
Thumbnail Height	Enter the thumbnail height. Default value: 45	Sets the default value for this field. It can be overridden in the display settings per field instance.
Rotate Thumbnails for Video Items	Check to show a thumbnail slideshow preview of the video when hovering over the thumbnail	

3. Click Save field settings.

Audio Only

To configure settings for the audio only widget

1. In the Manage Fields tab, click on edit in the Operations column.
2. Configure the following settings as for video only:
 - [Player Settings](#)
 - [Content Ingestion](#)
3. Click Save field settings.

Image Only

To configure settings for the image only widget

1. In the Manage Fields tab, click on edit in the Operations column.
2. Configure the following settings as for video only:
 - Image settings
 - Enter the Image width
 - Enter the Image height
 - [Thumbnail Settings](#)
 - [Content Ingestion](#)
3. Click Save field settings.

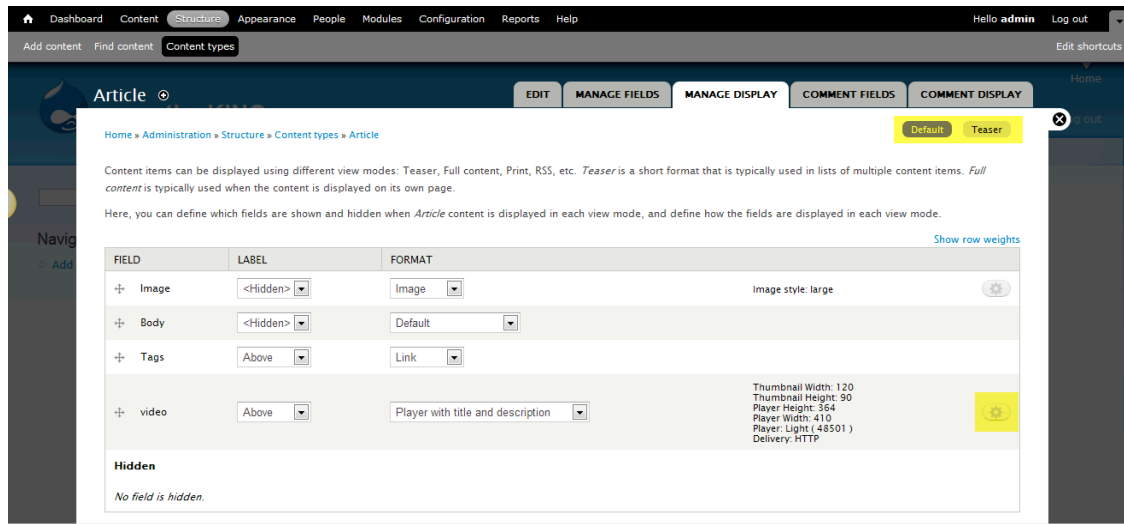
All Media types

To configure settings for the all media types widget

1. In the Manage Fields tab, click on edit in the Operations column.
2. Configure the following settings as for video only:
 - [Player settings](#)
 - [Content Ingestion](#)
3. Click Save field settings.

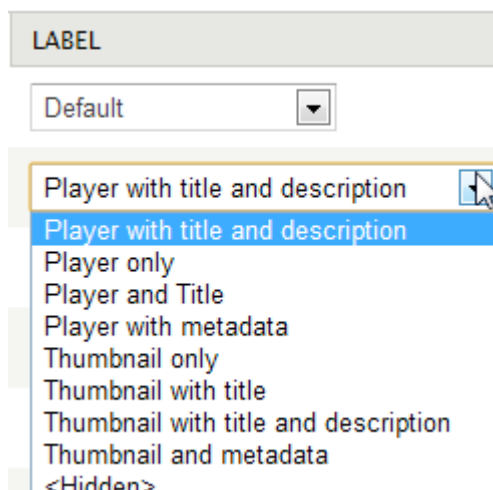
Managing the Content Type Display

You can change the display of the configured fields from the default setting, for each instance of the field and for each different custom display.



To manage the Kaltura Media field display

1. Select the Structure tab, and then select Content Types.
2. Select the content type you want to configure.
3. In the Operation column, click Manage Display to configure the display/format options.
 - Choose the Drupal Label from the drop-down menu. Select Above, Inline, or Hidden.
 - Choose the Display format option for the Kaltura Media Field. For example, the options for video are as follows:




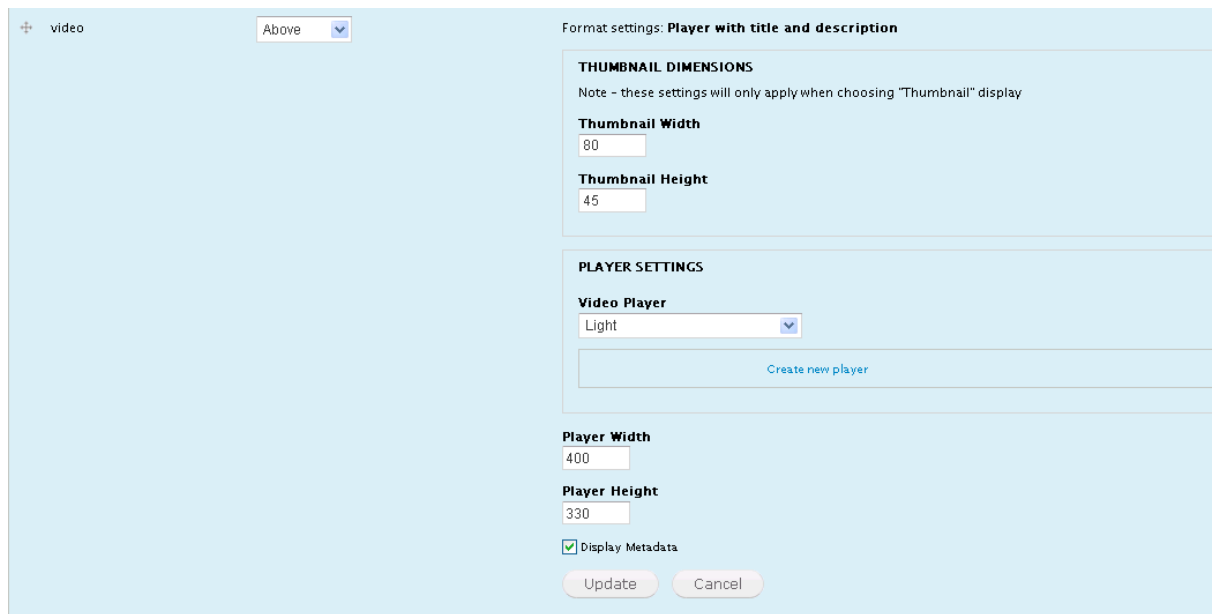
4. [Customize](#) your display (optional).
5. Click Save.

To customize the display for a specific instance of the field

1. Select the Structure tab and then select Content Types.
2. Select the content type you want to configure.
3. In the Operation column, click Manage Display to configure the display/format options.
4. Click Customize Display Settings and select the settings you want for your display modes.

The options you select - for example, Teaser, RSS, etc. - will be displayed in the manage display screen for further customization.

5. Click on the Display mode - for example, Teaser - and then click the  icon to open the instance specific customization fields.



The screenshot shows the 'video' field configuration page. At the top, there's a 'video' label and a dropdown menu set to 'Above'. The main area is divided into two columns. The right column contains settings for the 'Player with title and description' format. It includes sections for 'THUMBNAIL DIMENSIONS' with fields for 'Thumbnail Width' (80) and 'Thumbnail Height' (45), and 'PLAYER SETTINGS' with a 'Video Player' dropdown set to 'Light' and a 'Create new player' link. Below these are fields for 'Player Width' (400) and 'Player Height' (330), and a checked 'Display Metadata' checkbox. At the bottom are 'Update' and 'Cancel' buttons.

6. Customize the fields.
7. Click Update.

Expanding Kaltura Media Entity with Additional Fields

You can extend the Kaltura Media Entity in Drupal with additional custom fields and synchronize their value with data from KMC.

To create new custom fields for a Kaltura entity


1. Go to Configuration.
2. In the Media section, select Kaltura module settings and then select Manage Fields.
3. Add a new field from the drop down:

4. Enter field name and widget type.
5. Click Save.

To synchronize data from KMC with Drupal custom fields

1. Go to Configuration.
2. In the Media section, select Kaltura module settings and then select Fields Mapping.
3. For each of the custom fields in Drupal select the corresponding custom field in KMC:

Department (*field_department*)

Department Name (type: text; max num of values: 1) 

The type of this field is **Text**.

This field can contain maximum of **1** value(s).

Save configuration

4. Click Save configuration

Populating Kaltura Media Fields with Content

After a Kaltura Media Field is created in a content type, each time content of this type is created the content editor can populate the field with content.

To populate the Kaltura Media field

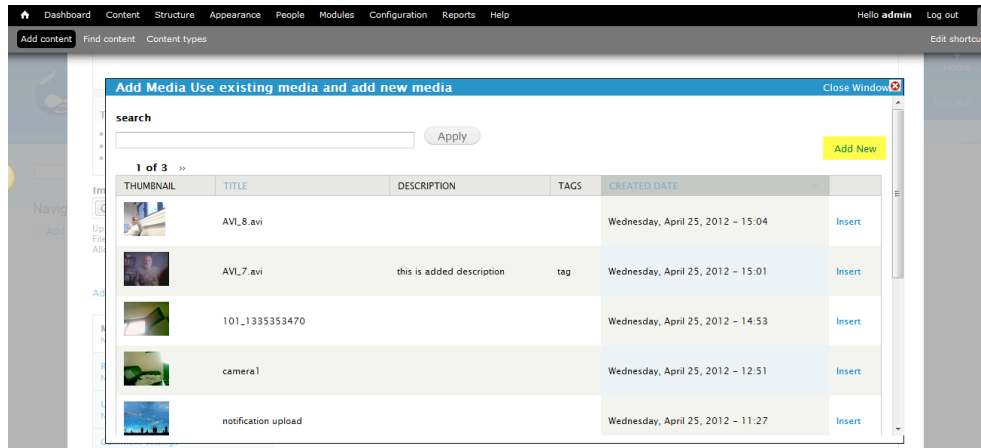
1. Select Content and then select Add Content. The label you defined for each Kaltura Media Field is displayed.
2. Click the relevant label.

The options to add content for the specific field are dependent on the type of Add Media Settings that were set for the field. See [Add Media Settings](#).

- If you selected Add new media, the content editor will only be able to upload new media to populate the field.
- If you selected Use existing media only, the content editor will not be able to upload new media content.
- If you selected Use existing media and add new media – the content editor will be able to upload new media as well as choose from existing uploaded content

The following example displays a label created for adding new and existing media.

Add Media Use existing media and add new media



- To sort the content, click on the column table headings for Title and Created By.
- To search through your media content, enter a text string and click Apply.



NOTE: If you selected more than one media type, you can filter the type of content for your search by using the checkboxes

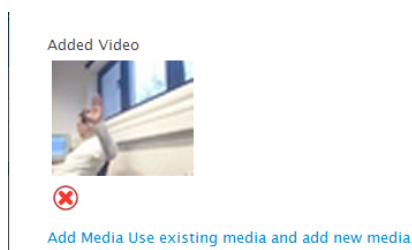
Add Media

search

☒ **Video**
☒ **Image**
☒ **Audio**

The label “Add New” (highlighted in the screenshot above) appears only when the field is configured to Add new media. Clicking Add New initiates the Kaltura Contribution Wizard flow. See [Adding Media through the Kaltura Contribution Wizard](#).

- After you select/find the media that you want to use in this specific content, click Insert. In the create/edit Content type page, the selected content is displayed as you specified in the [display format](#).



- To remove the content for the Kaltura Media field for a video, click on the red x.

Image



 **debbie.zioni_.jpg** (51.22 KB)

Remove

Alternate text

picture of author

This text will be used by screen readers, search engines, or when the image cannot be loaded.

- To remove the content for the Kaltura Media field for an image, select Remove.

6. Click Save.

After you save the content, the content is displayed as defined in the field display settings. See [Managing the Content Type Display](#).

Additional Integration Points

This section describes additional ways to integrate the Kaltura Video Module to Drupal. The following topics are described:

- [Synchronizing the Kaltura Publisher Account to Drupal](#)
- [Editing Content Metadata](#)
- [Drupal Views Integration](#)
- [Integration with the Drupal Permissions](#)

Synchronizing the Kaltura Publisher Account to Drupal

There are several levels of synchronizing your Kaltura publisher account to Drupal.

- **Automatic** – server-side notifications
Server-side notifications update Drupal with events occurring in your Kaltura account outside the Drupal site. These events include, for example:
 - New entries added
 - Update of metadata and thumbnails of existing entries
 - Deletion of existing entriesThese notifications are set in your Kaltura account. You can modify the notification settings in the KMC. For more information, see the [Kaltura Knowledge Center article on Server Notifications](#).
- **Scheduled**
You can add Kaltura API calls and actions on the Drupal database to a CRON job. This option is for advanced Drupal users.

Content that is contained in your Kaltura account is the media that is synced to Drupal. Content that is edited (metadata) in Drupal is also synced to Kaltura. See [Editing Content Metadata](#) for more information.

Another use case, for example, is you may have existing content in your Kaltura account that was uploaded before you added the Drupal module and would like to use the content. Use the On-demand option and then turn on the automatic process to ensure that all additional content from Kaltura will be uploaded.

To import content into Drupal using the On-demand mode

1. Go to Configuration.
2. In the Media section, select Kaltura module settings and then select List of Kaltura Items tab.
The list of media entries in your Kaltura account that were synced already to the Drupal server are displayed.
3. At the top click Import Media Entries from Kaltura. That will start a batch operation and import all entries that were not imported before to Drupal.

Editing Content Metadata

You may want to edit the metadata for content that you have uploaded and synced to the Drupal site.

To edit content metadata in Drupal

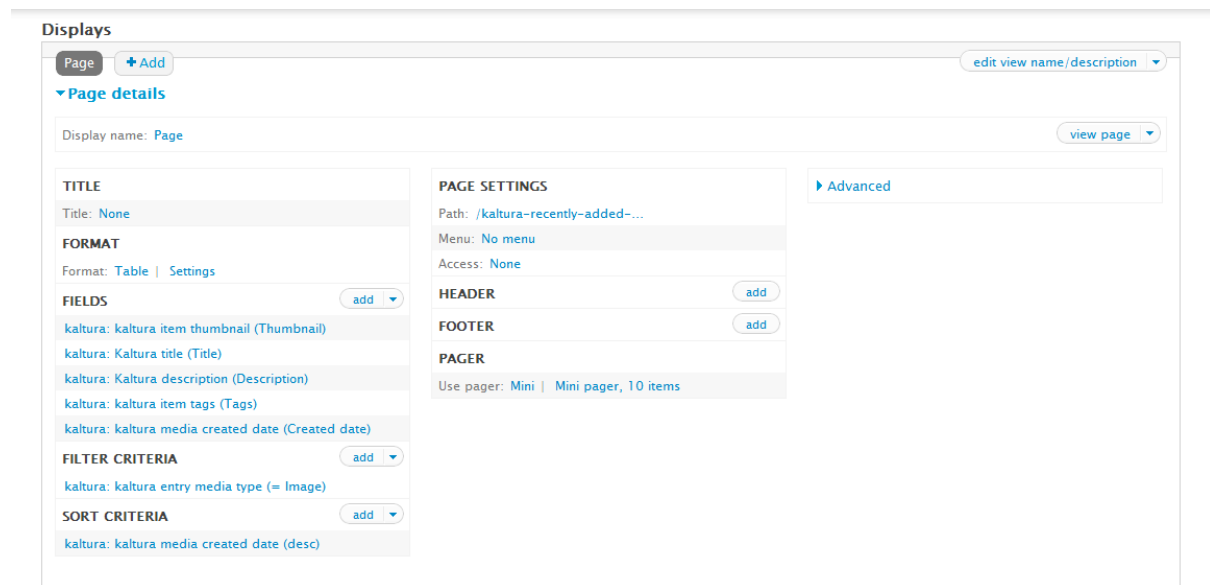
1. Select the Configuration tab.
2. In the Media section, select Kaltura module settings and then select Importing Entries from Kaltura to Drupal tab.
3. Click on the List of Kaltura Items tab, and then click Edit Metadata.
4. Modify the metadata information. You can edit the Title, Description, and Tags fields, and then click Submit.

The metadata is synchronized to your KMC content through the Kaltura API.

Drupal Views Integration

The Kaltura Module is fully integrated with Drupal Views. You can create a dynamic display of filtered Kaltura content using Drupal Views. Default Views are provided with the Kaltura Module.

The following shows an example of editing a View that uses Kaltura content. This example is one of the predefined views where the Filter is set to image, and the sort a criterion is set to created date.



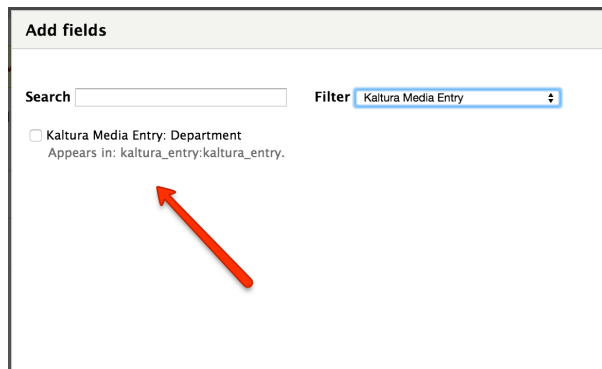
The screenshot shows the 'Displays' configuration page for a view named 'Page'. The interface includes a top bar with 'Page' and '+ Add' buttons, and a 'edit view name/description' link. Below this is a 'Page details' section with a 'Display name: Page' and a 'view page' link. The main configuration area is divided into three columns:

- TITLE**: Title: None
- FORMAT**: Format: Table | Settings
- FIELDS**: A list of fields including 'kaltura: kaltura item thumbnail (Thumbnail)', 'kaltura: Kaltura title (Title)', 'kaltura: Kaltura description (Description)', 'kaltura: kaltura item tags (Tags)', and 'kaltura: kaltura media created date (Created date)'. There is an 'add' button and a dropdown arrow.
- FILTER CRITERIA**: A list of filter criteria including 'kaltura: kaltura entry media type (= Image)'. There is an 'add' button and a dropdown arrow.
- SORT CRITERIA**: A list of sort criteria including 'kaltura: kaltura media created date (desc)'. There is an 'add' button and a dropdown arrow.
- PAGE SETTINGS**: Path: /kaltura-recently-added-..., Menu: No menu, Access: None, Header: add, Footer: add, Pager: Use pager: Mini | Mini pager, 10 items.
- Advanced**: A link to expand advanced settings.

A View that contains Kaltura content may also be configured and displayed as a block to allow greater design flexibility for your site.

Additional Integration Points

If you extended Kaltura entity with custom fields you can use them in Views as well. To do so, click Add field:

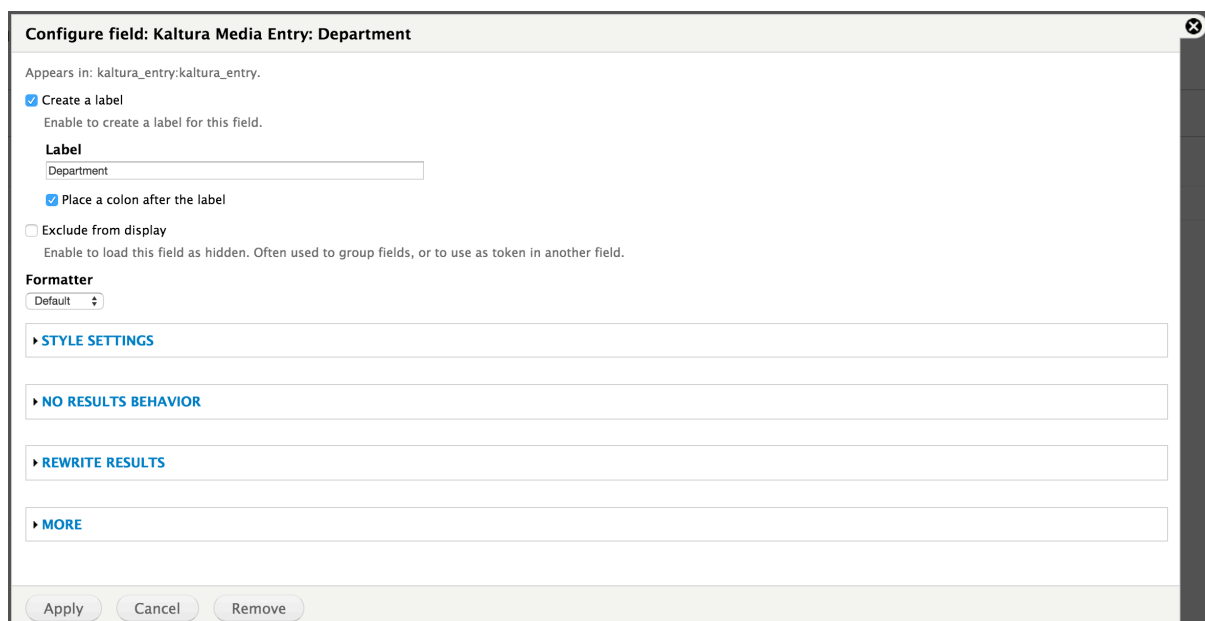


Add fields

Search Filter **Kaltura Media Entry**

☐ Kaltura Media Entry: Department
Appears in: kaltura_entry:kaltura_entry.

These are core Drupal Fields that support all the APIs:



Configure field: Kaltura Media Entry: Department

Appears in: kaltura_entry:kaltura_entry.

☒ **Create a label**
Enable to create a label for this field.

Label

☒ **Place a colon after the label**

☐ **Exclude from display**
Enable to load this field as hidden. Often used to group fields, or to use as token in another field.

Formatter

▸ **STYLE SETTINGS**

▸ **NO RESULTS BEHAVIOR**

▸ **REWRITE RESULTS**

▸ **MORE**

Integration with Drupal Permissions

Permissions let you control what users can do and see on your site. There are four Kaltura permissions that are integrated with the Kaltura Drupal Module.

- Administer Kaltura
- Access Kaltura Widgets
- View Kaltura embed code
- Edit Kaltura Metadata

Drupal Search Integration

In order to include Kaltura entries into Drupal's search it is recommended to use [Search API](#) module. Once install and enabled it will allow to create a new index:

Index name *
 Kaltura Media Assets Machine name: kaltura_media_assets [\[Edit\]](#)

Item type *
 Kaltura Media Entry [↕](#)
 Select the type of items that will be indexed in this index. This setting cannot be changed afterwards.

☒ **Enabled**
 This will only take effect if you also select a server for the index.

Index description

Server
 Database [↕](#)
 Select the server this index should reside on.

☐ **Read only**
 Do not write to this index or track the status of items in this index.

☐ **Index items immediately**
 Immediately index new or updated items instead of waiting for the next cron run. This might have serious performance drawbacks and is generally not advised for larger sites.

Cron batch size
 50
 Set how many items will be indexed at once when indexing items during a cron run. "0" means that no items will be indexed by cron for this index, "-1" means that cron should index all items at once.

[Create index](#)

You can select which fields to index within the Search API configuration screen:

FIELD	MACHINE NAME	INDEXED	TYPE	BOOST
Internal, numeric kaltura media entry ID	eid	<input checked="" type="checkbox"/>	Integer ↕	
Machine-readable name	kaltura_entryid	<input checked="" type="checkbox"/>	String ↕	
Kaltura_tags	kaltura_tags	<input checked="" type="checkbox"/>	Fulltext ↕	1.0 ↕
Kaltura_admin_tags	kaltura_admin_tags	<input type="checkbox"/>		
Kstatus	kstatus	<input type="checkbox"/>		
Kaltura_media_type	kaltura_media_type	<input type="checkbox"/>		
Kaltura_duration	kaltura_duration	<input type="checkbox"/>		
Kaltura_thumbnail_url	kaltura_thumbnail_url	<input type="checkbox"/>		
Kaltura_partner_data	kaltura_partner_data	<input type="checkbox"/>		
Kaltura_source	kaltura_source	<input type="checkbox"/>		
Kaltura_source_id	kaltura_source_id	<input type="checkbox"/>		
Kaltura_source_link	kaltura_source_link	<input type="checkbox"/>		
Kaltura_width	kaltura_width	<input type="checkbox"/>		
Kaltura_height	kaltura_height	<input type="checkbox"/>		
Kaltura_download_url	kaltura_download_url	<input type="checkbox"/>		
Kaltura_media_date	kaltura_media_date	<input type="checkbox"/>		
Kaltura_views	kaltura_views	<input type="checkbox"/>		
Kaltura_plays	kaltura_plays	<input type="checkbox"/>		

All custom fields that were added to Kaltura media entity are available for indexing as well.

Debugging Kaltura Module


In case you experience any issues with the module please follow these steps to ensure that the module was correctly installed and configured.

1. Check Status report page:

Kaltura client library	3.1.6
Kaltura module	Configured

Kaltura client library and Kaltura module lines should both appear there in green. In case any of these lines appear with red, please follow the guidance in the error message and try to resolve it.

Here is an example when client library wasn't setup correctly:

 Kaltura client library	Not detected
Kaltura module requires Kaltura client library to be installed. You can download it using Drush command "drush kaltura-client-install" or manually from this url .	

2. Sometimes you may need to clear Drupal cache before Kaltura client library is detected, even if it's already uploaded to the right directory. You can do so via a drush command ('drush cc all') or from the Admin interface.
3. If you are still experiencing troubles, check Drupal's watchdog messages located at /admin/reports/dblog. It may show useful information when there is a conflict with another module.
4. If neither of the above helped, open a ticket on a Drupal.org page:
<https://www.drupal.org/node/add/project-issue/kaltura>