

Bulk Uploading Kaltura Videos to EQUELLA

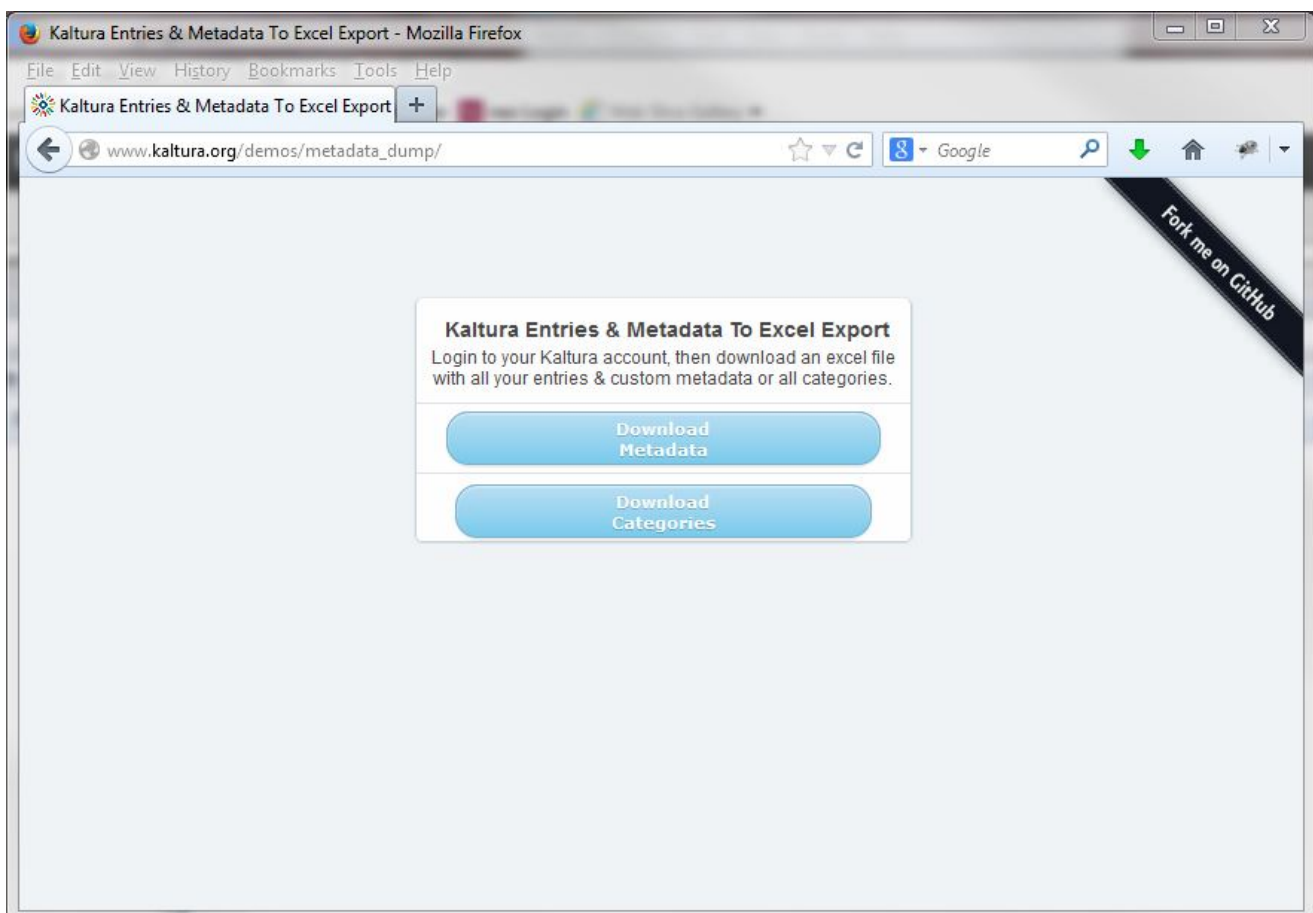
You can bulk upload Kaltura videos into EQUELLA by first uploading the videos to Kaltura (either in bulk or manually), exporting the Kaltura metadata and uploading the metadata to EQUELLA. This document details these steps and provides an optional section if you intend to use [EQUELLA Bulk Importer \(EBI\)](#) to do the last step.

1. Upload the videos to Kaltura

Assuming this needs to be done in bulk, this can be accomplished by either using the KMC (http://kmc.kaltura.com/content/docs/pdf/KMC_User_Manual.pdf#page=17) or writing a program that utilizes Kaltura's API.

2. Export the Kaltura metadata

Kaltura will automatically assign an ID and thumbnail URL to each uploaded video and these are needed by EQUELLA. You can write your own program that uses Kaltura's API to export the Kaltura metadata. Or you can export the Kaltura metadata using Kaltura's metadata dump tool ([Kaltura Entries & Metadata To Excel Export](#)):



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Select Download Metadata. This will generate an Excel spreadsheet with a row per video. There are many columns but the most important ones are "id", "name" and "thumbnailURL":

N31										AP									
K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
id	name				thumbnailURL														
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	21	72	48	13	12	0	crf3ox66	Nature Video	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_crf3ox66/version/100000									
3	0	0	0	0	0	0	0	dpf6ox93	Flying Video	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_dpf6ox93/version/100000									
4	0	0	0	0	0	0	0	razba0rx	Kaltura Platform Overview - Audio	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_razba0rx/version/100000									
5	0	0	0	0	0	0	0	shwm35n6	Kaltura Video Solutions for Media Companies	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_shwm35n6/version/100000									
6	0	0	0	0	0	0	0	bpfq9gdl	Kaltura Education Video Solutions	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_bpfq9gdl/version/100000									
7	0	0	0	0	0	0	0	1pt170q7	Kaltura MediaSpace Overview	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_1pt170q7/version/100000									
8	0	0	0	0	0	0	0	ti8bivls	iCEV: Monetizing HQ.EDU Videos on the Web	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_ti8bivls/version/100000									
9	0	0	0	0	0	0	0	n0dfz6fz	SAP: Internal Social Video Portal in Enterprises	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_n0dfz6fz/version/100000									
10	0	0	0	0	0	0	0	ahfvzgc5	MediaSpace Categories	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_ahfvzgc5/version/100000									
11	0	0	0	0	0	0	0	k41sl9zv	Kaltura Management Console (KMC) Overview	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_k41sl9zv/version/100000									
12	0	0	0	0	0	0	0	9muve0pg	Columbia Business School: Video as a Marketing Tool in Education	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_9muve0pg/version/100000									
13	0	0	0	0	0	0	0	zzhe91zq	Cornell Uni: Scaling the Video Infrastructure	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_zzhe91zq/version/100000									
14	0	0	0	0	0	0	0	4xj5fmbt	Intro to MediaSpace	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_4xj5fmbt/version/100000									
15	0	0	0	0	0	0	0	4zy633mr	Oregon State: Creating a Campus Media Portal	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_4zy633mr/version/100000									
16	0	0	0	0	0	0	0	2juugfqp	MediaSpace Admin Basics	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_2juugfqp/version/100000									
17	0	0	0	0	0	0	0	8mrvb944	Kaltura Customer Stories	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_8mrvb944/version/100000									
18	0	0	0	0	0	0	0	8p6seg0d	Kaltura Enterprise Video Solutions	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_8p6seg0d/version/100000									
19	0	0	0	0	0	0	0	dz2634x2	Kaltura Video Platform Overview	http://cdnbakmi.kaltura.com/p/1507502/sp/150750200/thumbnail/entry_id/0_dz2634x2/version/100000									

3. Add Corresponding EQUELLA Attachments

Either by using the EBI (see next section) or a custom program that utilizes EQUELLA's APIs produce an attachment element for each row in the Kaltura metadata dump that looks like this:

```

- <attachment type="custom">
  <type>kaltura</type>
  <uuid>20a922ff-27ee-4e7d-b86a-78bec58642f7</uuid>
  <file/>
  <description>Nature Video</description>
- <attributes>
  - <entry>
    <string>kalturaServer</string>
    <string>846328ab-522a-450b-9764-e52e15e1b6bd</string>
  - <entry>
    <string>thumbUrl</string>
    <string>https://cdnsecakmi.kaltura.com/p/691292/sp/69129200/thumbnail/entry_id/0_crf3ox66/version/100000</string>
  - <entry>
    <string>entryId</string>
    <string>0_crf3ox66</string>
  - </entry>
- </attributes>
- </attachment>

```

Name for attachment in EQUELLA
(typically use Name from Kaltura metadata dump but can in fact be anything)


Your EQUELLA Kaltura connection ID
(from EQUELLA settings)

Kaltura resource thumbnail URL (from metadata dump)

Kaltura resource ID
(from metadata dump)

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The value for kalturaServer should be the same for all the attachments and can be retrieved from your EQUELLA Settings:



The screenshot shows the 'Edit Kaltura server' page in the EQUELLA interface. The breadcrumb trail at the top is 'Settings > Kaltura > Edit Kaltura server'. On the left is a sidebar menu with options: Dashboard, Favourites, My resources, Search, Contribute, Accounting, Business, and Computing. The main content area has the title 'Edit Kaltura server' and the following fields:

- Name:** Jim's Kaltura
- Description:** (empty text area)
- Server UUID:** 846328ab-522a-450b-9764-e52e15e1b6bd (this field is highlighted with a red box)
- Endpoint:** http://www.kaltura.com

Below the Endpoint field, there is a note: 'Enter your Kaltura server address e.g http://www.kaltura.com (SaaS)'.

If you intend to create attachments in EQUELLA by writing a custom program or script then The specified item was not found. may be useful. It has information about how attachments and metadata relate in EQUELLA.

Using EBI to Upload Kaltura Metadata

After performing the Kaltura metadata dump (see section above) form a CSV with a column as per the second column in the figure below and set the column as a "Custom Attachments" datatype in the EBI:

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E2		
	A	B
1	metadata/name	<div> <div>metadata/kalturaattachments/uuid</div> <div> Use the xpath in the Metadata Target for the Attachments control in the EQUELLA wizard that manages Kaltura resources </div> </div> <pre> <attachment type="custom"> <type>kaltura</type> <description>Nature Video</description> <file/> <attributes> <entry> <string>kalturaServer</string> <string>846328ab-522a-450b-9764-e52e15e1b6bd</string> </entry> <entry> <string>entryId</string> <string>0_crf3ox66</string> </entry> <entry> <string>thumbUrl</string> <string>https://cdnsecakmi.kaltura.com/p/691292/sp/69129200/thumbnail/entry_id/0_crf3ox66/version/100000</string> </entry> </attributes> </attachment> </pre>
2	Nature Video in Kaltura	
3	Flying Video in Kaltura	<pre> <attachment type="custom"> <type>kaltura</type> <description>Flying Video</description> <file/> <attributes> <entry> <string>kalturaServer</string> <string>846328ab-522a-450b-9764-e52e15e1b6bd</string> </entry> <entry> <string>entryId</string> <string>0_dp6ox93</string> </entry> <entry> <string>thumbUrl</string> <string>https://cdnsecakmi.kaltura.com/p/691292/sp/69129200/thumbnail/entry_id/0_dp6ox93/version/100000</string> </entry> </attributes> </attachment> </pre>

FullTest.ebi - EBI						
<div> <div>Connection</div> <div>CSV</div> <div>Options</div> <div>Log</div> </div> <div> CSV: C:\Users\jim\Desktop\Kaltura\EQUELLAImport.csv <div>Browse...</div> <div>Reload CSV</div> <div>Test Import</div> <div>Start Import</div> </div> <div> Encoding: latin1 Row filter: </div>						
Pos	Column Heading	Column Data Type	Display	Source Identifier	XML Fragment	Delimiter
1- A	metadata/name	Metadata	YES			
2- B	metadata/kalturaattachments/uuid	Custom Attachments				

The cell value (of B2 in the example) is an XML fragment the same as step 3 in the previous section *without the /attachment/uuid element*. This element is not needed in your CSV as the EBI will generate it for you. The

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column heading should be the same as the value in the Metadata Target of the Attachments control in your collection wizard that is used for attaching Kaltura resources (omit the leading slash):

The screenshot shows the 'Attachments' configuration window in the EQUELLA interface. On the left is a tree view with 'Kaltura' selected. The main panel is titled 'Attachments' and contains the following fields and options:

- Title:** Kaltura
- Description:** (empty text box)
- ☐ This control is mandatory
- ☒ Allow multiple attachments
- ☒ Allow the selection of preview attachments
- Select metadata target(s) for this control:**
 - Add:** /metadata/kalturaattachments/uuid (highlighted with a red box)
 - Remove:** (empty)
- Allow the following attachment types:**
 - ☐ Echo360 Presentations
 - ☐ Files
 - ☐ Google Books
 - ☒ Kaltura streaming media
 - ☐ Web Pages
 - ☐ EQUELLA Resources
 - ☐ Flickr photos
 - ☐ iTunesU Tracks
 - ☐ URL Links
 - ☐ YouTube Videos
- Kaltura streaming media:**
 - Kaltura server:** Jim's Kaltura (dropdown menu)
 - Restrictions:**
 - ☒ None - Users may choose to upload new media or select existing media
 - ☐ Allow uploading of new media only
 - ☐ Allow the selection of existing media only

At the bottom right are 'Save' and 'Close' buttons.

Simplify Your CSV!

To make your CSV simpler you can use XPath Indexes. This way the XML fragment in the Custom Attachments column is *fixed* and the data from the Kaltura metadata dump can be structured as simple tabular data. This saves you having to use scripts or Excel formulas to form XML fragments from the Kaltura metadata dump. To do this the CSV should have the following columns:

Column Heading	Value	Column Datatype
<Attachments control metadata target>	Fixed value (XML fragment)	Custom Attachments

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item/attachments/attachment/ description	Description of attachment (can use "name" from metadata dump)	Metadata
item/attachments/attachment/ attributes/entry[2]/string[2]	"id" from metadata dump	Metadata
item/attachments/attachment/ attributes/entry[3]/string[2]	"thumbnailURL" from metadata dump	Metadata

(note that this setup assumes one and only one attachment per item)

For example:

	A	B	C	D	E
1	metadata/name	metadata/kalturaattachments/uuid	item/attachments/attachment/description	item/attachments/attachment/attributes/entry[2]/string[2]	item/attachments/attachment/attributes/entry[3]/string[2]
	Nature Video in Kaltura	<pre><attachment type="custom"> <type>kaltura</type> <file/> <attributes> <entry> <string>kalturaServer</string> <string>846328ab-522a-450b-9764-e52e15e1b6bd</string> </entry> <string>entryId</string> </entry> <string>thumbUrl</string> </entry> </attributes> </attachment></pre>	Nature Video	0_crf3ox66	https://cdnsecakmi.kaltura.com/p/691292/sp/69129200/thumbnail/entry_id/0_crf3ox66/version/100000
2	Flying Video in Kaltura	<pre><attachment type="custom"> <type>kaltura</type> <file/> <attributes> <entry> <string>kalturaServer</string> <string>846328ab-522a-450b-9764-e52e15e1b6bd</string> </entry> <string>entryId</string> </entry> <string>thumbUrl</string> </entry> </attributes> </attachment></pre>	Flying Video	0_dp6fox93	https://cdnsecakmi.kaltura.com/p/691292/sp/69129200/thumbnail/entry_id/0_dp6fox93/version/100000
3					

Pos	Column Heading	Column Data Type	Display	Source Identifier	XML Fragment	Delimiter
1- A	metadata/name	Metadata	YES			
2- B	metadata/kalturaattachments/uuid	Custom Attachments				
3- C	item/attachments/attachment/description	Metadata				
4- D	item/attachments/attachment/attributes/entry[2]/string[2]	Metadata				
5- E	item/attachments/attachment/attributes/entry[3]/string[2]	Metadata				

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In the above example columns C, D and E populate the missing values in the XML fragment of column B by using the XPath indexes in their column headings. For more information about XPath Indexes see the EBI User Manual. The above CSV example is attached to this document.

Note: you can also use EBI Expert Scripts for more fancy stuff (see EBI User Manual).