

Brightcove AEM Connector v5.0 Quickstart

September 26, 2017

This document briefly describes getting started with the Beta release of the v5.0 Brightcove AEM Connector. The Connector can be downloaded from the following link:

<https://github.com/coresecure/Adobe-AEM-Brightcove-Connector/releases>

The brightcove-all-5.0.x-AEM62-AEM63-SNAPSHOT.zip file available on GitHub is built for AEM 6.2 and AEM 6.3. All source code is available on GitHub if you would like to build a snapshot for another AEM version.

Installation of the Connector is similar to installation of the v4.1/v4.2 Connector described [here](#). If you are new to the Brightcove AEM Connector we recommend you read that document prior to proceeding.

During the Beta period for the Brightcove AEM Connector, questions and feedback can be sent to Tim Baldwin <tbaldwin@brightcove.com>. Once the Connector is released, questions and feedback should be sent through your normal support channels.

While the Connector is in Beta it is recommended that it not be used on production AEM instances. Also, the Connector is open source and any usage of the Connector falls under the [License](#) on GitHub.

Key Changes

The v5.0 Brightcove AEM Connector now supports Touch UI while maintaining support for Classic UI. The Connector no longer allows legacy SmartPlayer Flash players to be embedded on web pages, but existing SmartPlayers on existing web pages are not impacted.

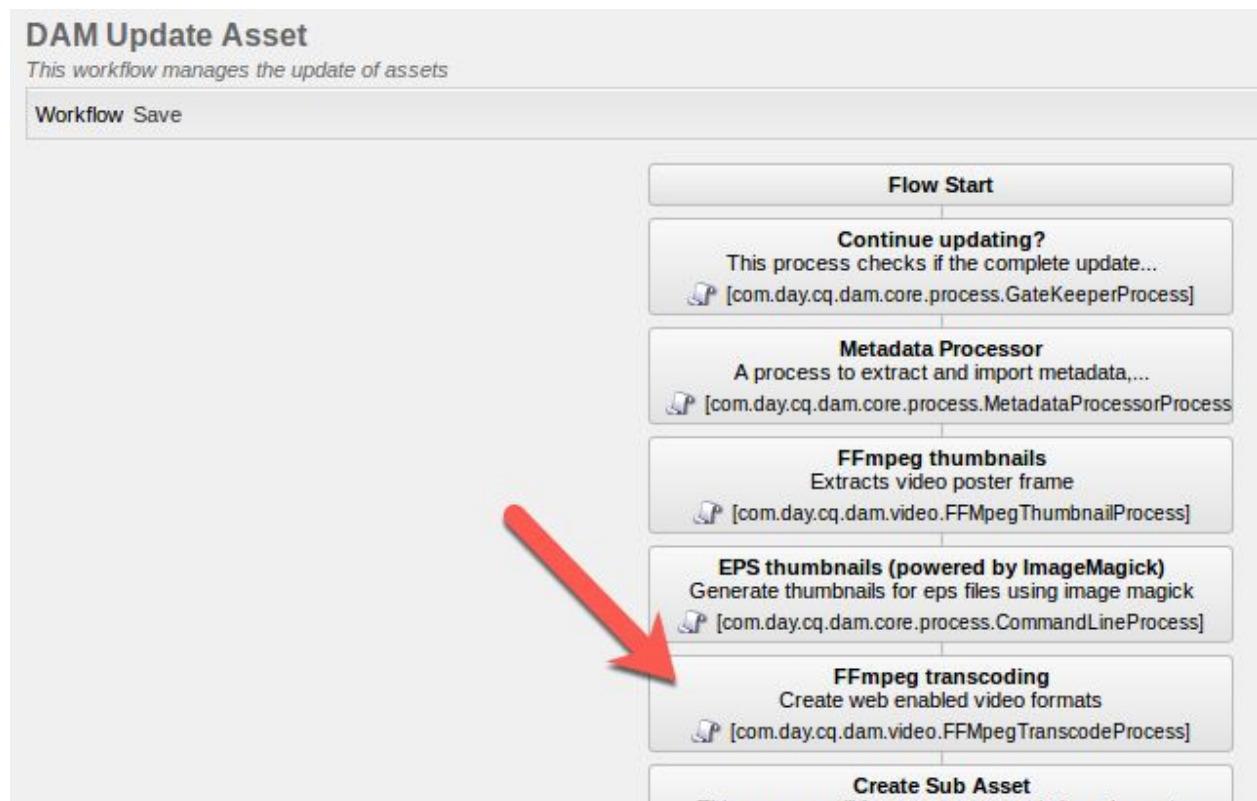
One other notable change in this version of the AEM Connector now uses the built-in Digital Asset Manager (DAM) in AEM meaning that every video in your Brightcove account will have a matching video object in the AEM DAM and metadata will be synchronized between AEM and Brightcove. If you prefer, you will now be able to keep a copy of your master video in AEM. However, even when keeping your master video in AEM, all renditions used for streaming your video will only be stored in Brightcove, not in the AEM DAM, and all video stream delivery will continue to use Brightcove ensuring the delivery quality you are accustomed to and expect from Brightcove.

Installation and Configuration

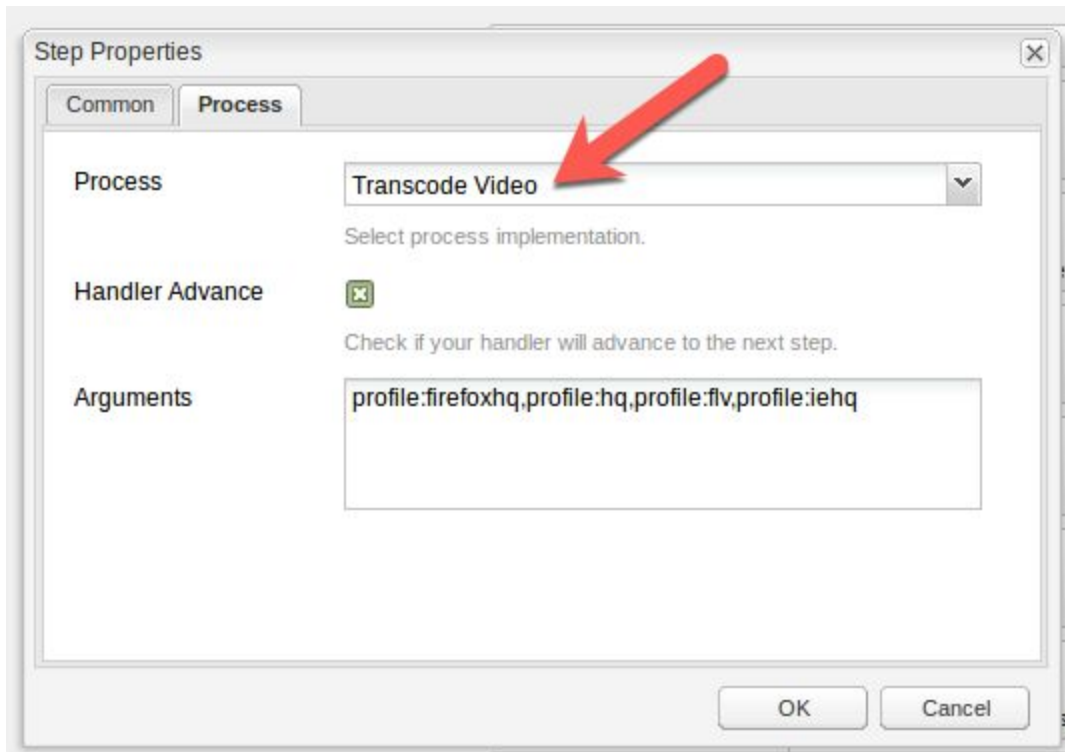
Briefly, the Connector can be installed following the steps below:

1. Verify FFMPEG is installed and in the search path as it is used by the AEM DAM.
2. Disable video transcoding in the DAM Update Asset workflow unless you have a need for transcoded videos in the DAM. Otherwise, transcoding will slow down the system and FFMPEG is known to hang on some videos. To disable transcode, browse to /cf#/etc/workflow/models/dam/update_asset.html.

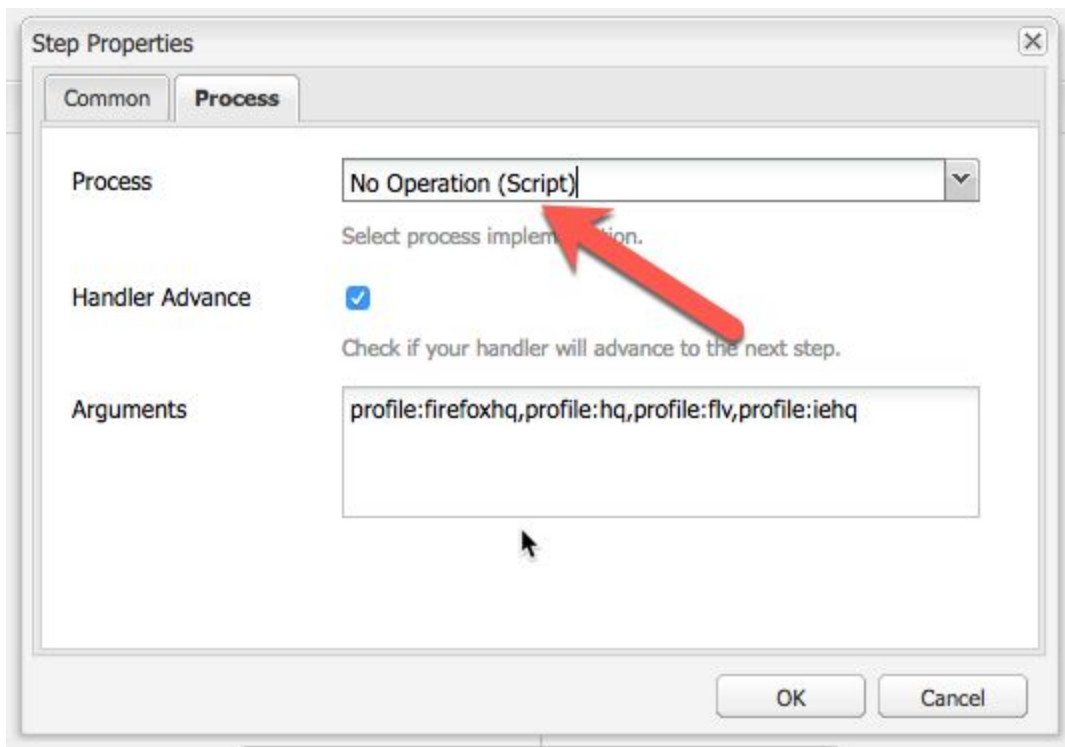
First, double click on FFmpeg transcoding.



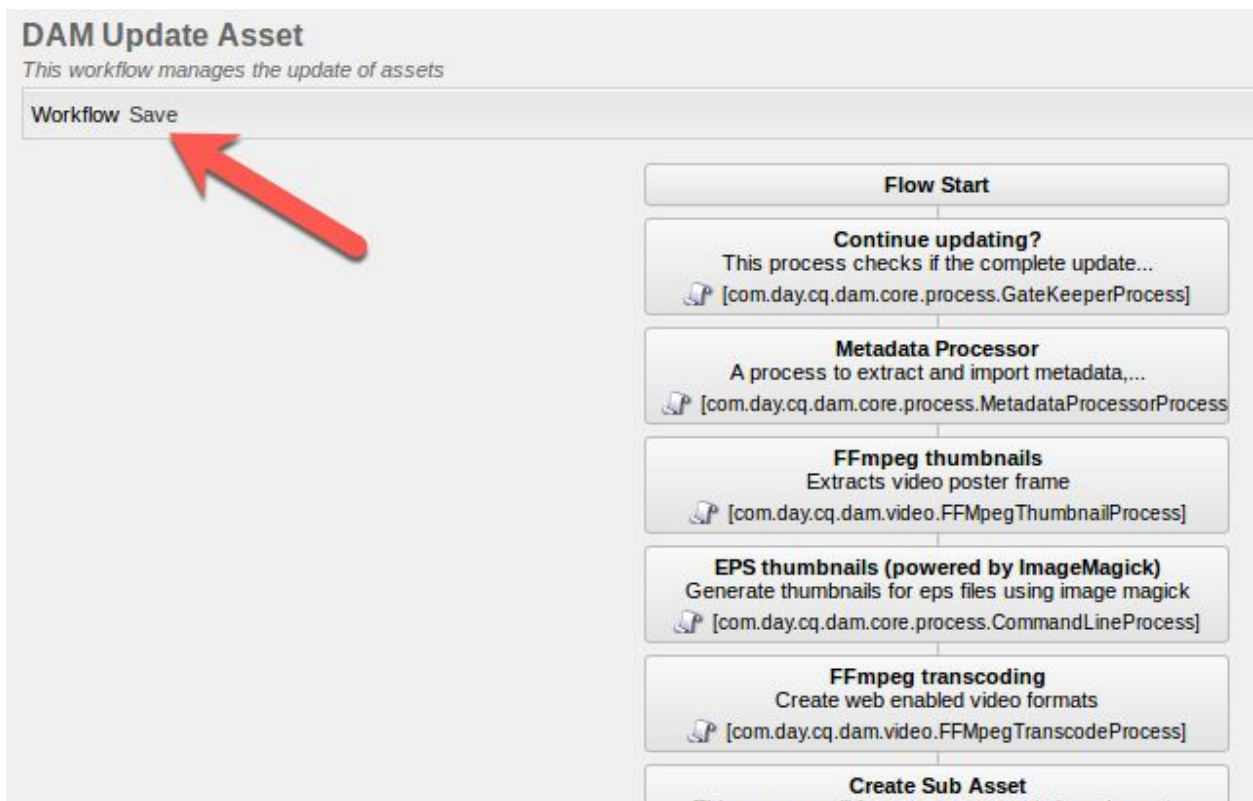
Next, change "Transcode Video"



to "No Operation (Script)"



and click OK and then click Save.



2. Set up a dev instance if you do not already have one with

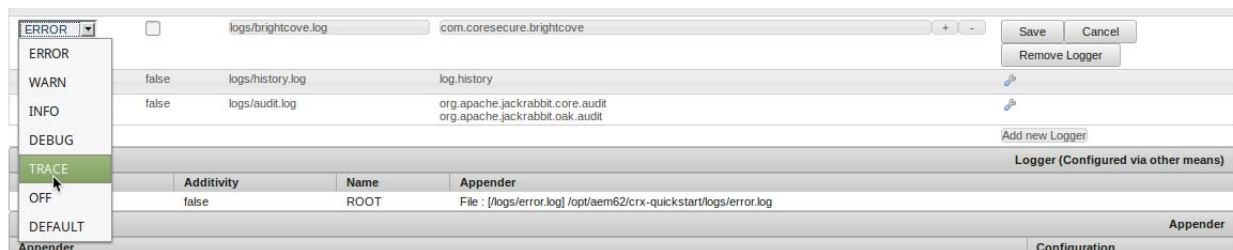
```
java -Xmx1400M -jar AEM_6.2_Quickstart.jar
```

If you use this Quickstart, your AEM instance will be hosted at: <http://localhost:4502> by default.

3. Upload and install the Connector snapshot zip file using /crx/packmgr.

4. Verify the package installed cleanly and is "Active" at /system/console/bundles. Search for 'Brightcove'.

5. Enable TRACE level messages on logs/brightcove.log at /system/console/slinglog for easier debugging of any issues that may arise.



For production instances, change the level back to INFO.

6. Setup the user account/group that will use the Connector at /useradmin. Note that in AEM 6.2 the 'admin' user is not by default part of the 'administrators' group. If you will be using the Connector as admin, drag the admin user to administrators group Members tab and click save. Otherwise choose the group that you will allow to access the Connector and then make sure the user account you will be using is a member of that group.

7. Configure the Connector at /system/console/configMgr. Search for 'Brightcove Service' and click on the "+".

Note: If you are using a production Brightcove account with the Connector, it is recommended that while the Connector is in Beta state you set up and use read-only API credentials so that your Brightcove data cannot be negatively impacted. Below is an example from the [Brightcove API Authentication page](#):

Exposed Brightcove APIs

Analytics	Audience	CMS	Dynamic Ingest	Ingestion Profiles	Players
<input type="checkbox"/> Read	<input type="checkbox"/> Read	<input checked="" type="checkbox"/> Notifications	<input type="checkbox"/> Create	<input checked="" type="checkbox"/> Configuration Read	<input checked="" type="checkbox"/> Read
	<input type="checkbox"/> Read/Write	<input checked="" type="checkbox"/> Playlist Read	<input type="checkbox"/> Push Files	<input type="checkbox"/> Configuration Read/Write	<input type="checkbox"/> Read/Write
		<input type="checkbox"/> Playlist Read/Write		<input checked="" type="checkbox"/> Read	
		<input checked="" type="checkbox"/> Video Read		<input type="checkbox"/> Read/Write	
		<input type="checkbox"/> Video Read/Write			

You would not be able to upload videos or edit metadata with these settings, however.

If you are using a non-production AEM instance, create API credentials with write access as shown below:

Exposed Brightcove APIs

Analytics	Audience	CMS	Dynamic Ingest	Ingestion Profiles	Players
<input type="checkbox"/> Read	<input type="checkbox"/> Read	<input checked="" type="checkbox"/> Notifications	<input checked="" type="checkbox"/> Create	<input checked="" type="checkbox"/> Configuration Read	<input checked="" type="checkbox"/> Read
	<input type="checkbox"/> Read/Write	<input checked="" type="checkbox"/> Playlist Read	<input checked="" type="checkbox"/> Push Files	<input type="checkbox"/> Configuration Read/Write	<input type="checkbox"/> Read/Write
		<input checked="" type="checkbox"/> Playlist Read/Write		<input checked="" type="checkbox"/> Read	
		<input checked="" type="checkbox"/> Video Read		<input type="checkbox"/> Read/Write	
		<input checked="" type="checkbox"/> Video Read/Write			

Below are suggested values for the configuration form:

- Account Alias: enter a name for the account to be displayed in the Connector
- Account ID: enter your Brightcove publisher ID
- Client ID: enter your Brightcove client ID from the [Brightcove API Authentication page](#)

- Client Secret: enter your Brightcove client Secret from the [Brightcove API Authentication page](#)
- Allowed Groups: specify the group that will access the Connector
- Players Store Path: keep default value
- Default Video Player ID: keep default value or another player ID
- Default Video Player Key: deprecated, leave blank
- Default Playlist Player ID: enter a player ID enabled for playlists if you plan to use playlists
- Default Playlist Player Key: deprecated, leave blank
- Proxy server: leave blank or enter proxy if you were previously using a proxy
- Dam Integration Path: keep default value
- Default Asset Thumbnail PNG: keep default value

8. Set up player pages using the Classic UI at /siteadmin#/content. Add “brightcovetools” folder and then add “players” folder under brightcovetools. This will match the Players Store Path in the default configuration above. Inside players folder add a New Page of type ‘Brightcove Player Page’. Edit properties of the new page with right button->Properties. Select your Brightcove account and then select a player. If accounts do not display in the Account pulldown, go back and check your Brightcove credentials entered at /system/console/configMgr and verify that your user ID is actually a member of the group specified in the Allowed Groups entered at /system/console/configMgr.

Usage

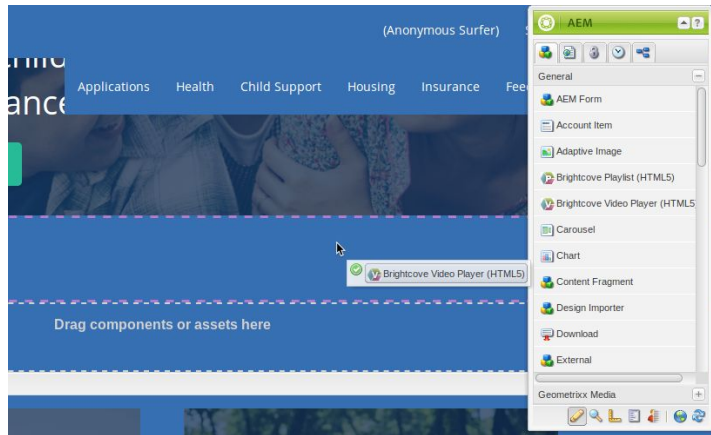
The Brightcove AEM Connector consists of following components: video player publishing, video content management, and an administrative page.

Video Player Publishing

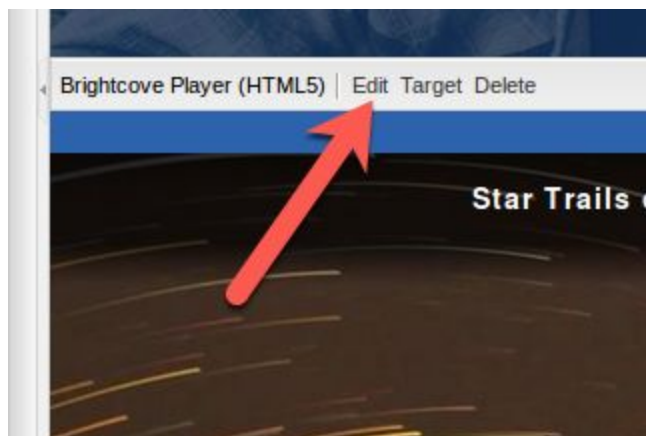
Video player publishing allows the user to drag a Brightcove player component onto a web page and then select the Brightcove account, video, and player for that component. This component was available in the v4.2 Connector in Classic UI mode only. In the v5.0 Connector, this component is available in both Classic UI mode and Touch UI mode. Another change from v4.2 is the legacy Smartplayer components are no longer available; only the HTML5 Brightcove player components are available now. Existing web pages with the legacy SmartPlayer components may still contain those components, but new legacy SmartPlayer components cannot be added to a web page.

Classic UI Player Component

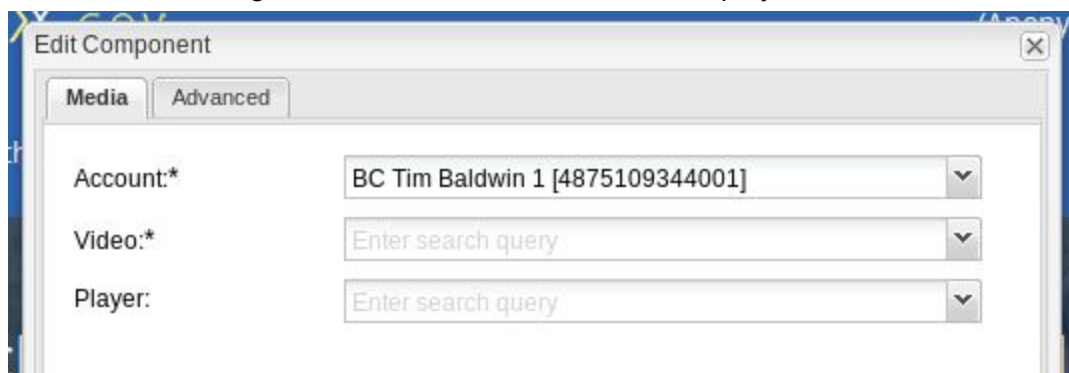
Embed a player on a page by opening a web page from /cf#/content/. Drag a Brightcove player component onto the page from the popup on the right.



Once the component is embedded on the page, click the edit icon.



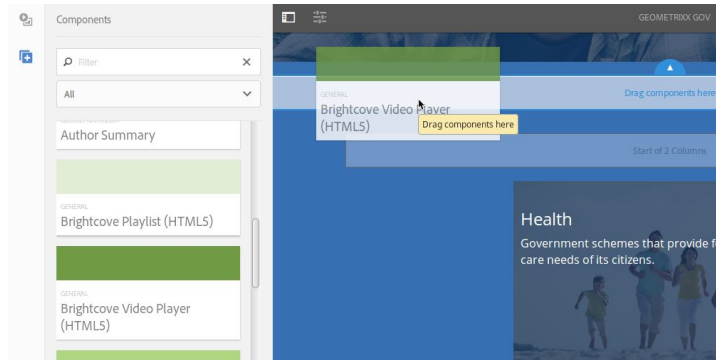
Next, select the Brightcove account, the video, and the player to use.



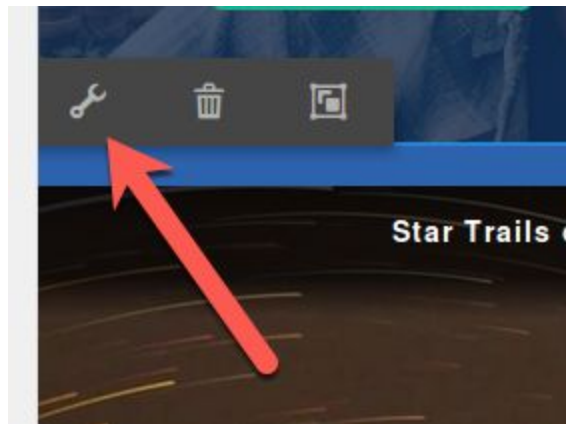
If the player is left blank, it will use the default video or playlist player specified on the Brightcove configuration page at </system/console/configMgr>.

Touch UI Player Component

Embed a player on a page by opening a web page from /editor.html/content/. Drag a Brightcove player component onto the page from the component section on the left.



Once the component is embedded on the page, click the edit icon.



Next, select the Brightcove account, the video, and the player to use.

Edit dialog

Media

Advanced

Account:*

BC Tim Baldwin 1 [4875109344001]

Video:*

Enter search query

Player:

Enter search query

If the player is left blank, it will use the default video or playlist player specified on the Brightcove configuration page at `/system/console/configMgr`.

Video Synchronization

Video content management in the v5.0 Connector uses the AEM DAM to upload videos to Brightcove and update metadata in Brightcove. Previously the administrative page at `/brightcove/admin` was used for this purpose.

If new videos are being uploaded directly to Brightcove and/or if metadata is being edited directly in Brightcove, with Brightcove Studio for instance, the “SYNC DATABASE” button on the Brightcove administration page at `/brightcove/admin` will synchronize new videos or updated metadata from Brightcove into the AEM DAM. This database sync can be setup to execute on a schedule as well. Note that video assets imported from Brightcove into the DAM will not copy the original video into the AEM DAM but instead will use the Brightcove thumbnail as a placeholder for the video. Thus, the AEM database size will not grow substantially when importing videos from Brightcove.

New videos can also be uploaded to the AEM DAM directly and then they will be synchronized to Brightcove during the Publish operation in AEM. When a video is uploaded to the AEM DAM and then synchronized with Brightcove, that original video file is stored in the AEM DAM. For some implementations it is preferred to keep the “master” video in the AEM database while for other implementations it is not preferred because the size of the AEM database will grow too quickly. If you do not want the original video stored in the AEM DAM, you can simply delete the video in the AEM DAM after it has been synchronized to Brightcove and it will be imported from Brightcove with the thumbnail image placeholder during the next synchronization, triggered by the “SYNC DATABASE” button on the Brightcove administrative page.

Video Content Management

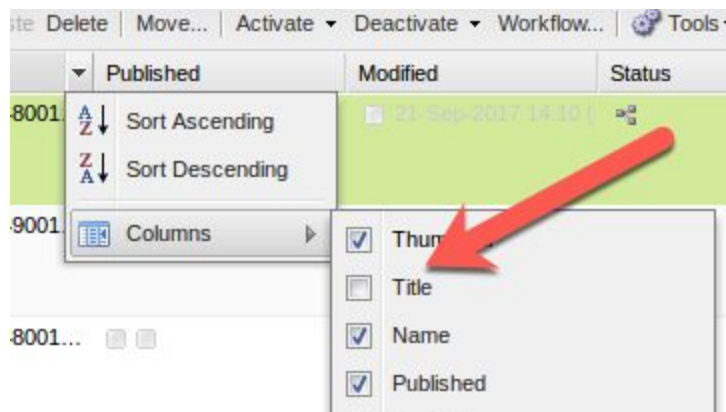
The Connector uses the AEM DAM to upload new videos to Brightcove and synchronize metadata changes to Brightcove.

Setup

Before using the AEM DAM with Brightcove for the first time, the DAM Integration Path folder structure as specified on the Brightcove configuration page at `/system/console/configMgr` needs to be created. The default is `/content/dam/brightcove_assets` if you do not change it on the configuration page.

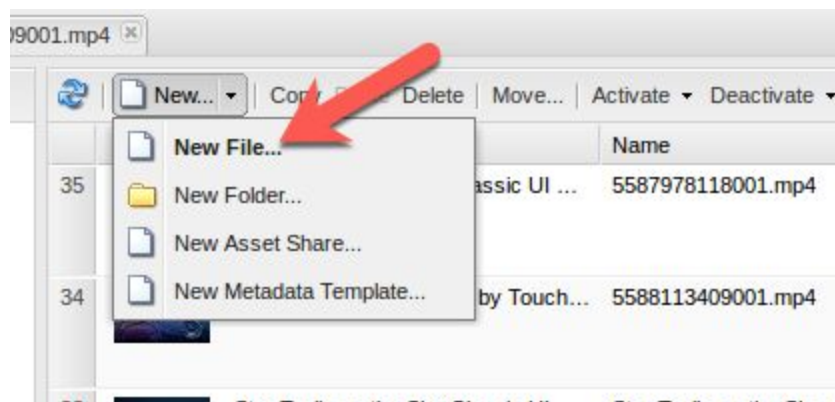
In Classic UI the folders can be created at `/damadmin#/content/dam`. In Touch UI the folders are created at `/assets.html/content/dam`. Alternatively, the “SYNC DATABASE” button on the administrative page at `/brightcove/admin` will create the necessary folders in the AEM DAM and import any videos that already exist in the Brightcove account.

Also, if you are using the AEM DAM in Classic UI, enable the Title field as shown below when viewing /damadmin#/content/dam:

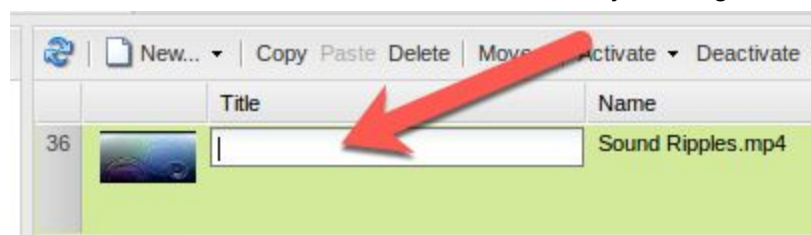


Uploading New Videos in Classic UI

To upload a new video in the Classic UI, browse to /damadmin#/content/dam/brightcove_assets, open the folder for the Brightcove account you wish to use, and click New->New File.



After uploading, edit the Title field as it is required to publish the video to Brightcove. The Title field can be edited in the DAM asset list view by clicking on the Title field for the new asset



or by opening the new asset and editing the Title field

Sound Ripples.mp4

Brightcove Asset Metadata

Title

Short Description

Long Description

and saving.

On Time

Off Time

Use Restrictions

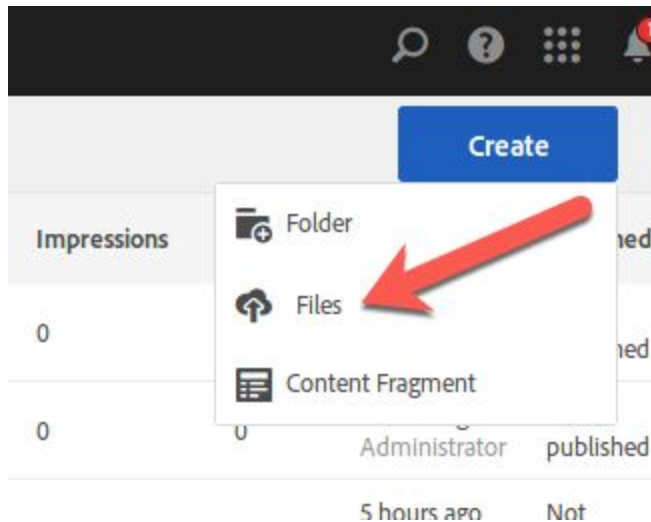
Save Reset

Other metadata fields are optional, except possibly Brightcove Custom Fields. However, due to a limitation in the AEM Classic UI, Brightcove Custom Fields, for which support was added in the 5.0 version of the Connector, are not able to be edited in the Classic UI so you would need to use Touch UI instead. At this point the video exists in the AEM DAM only. To synchronize the video to Brightcove, select the new asset in the asset list view and click Activate to publish the video to Brightcove.

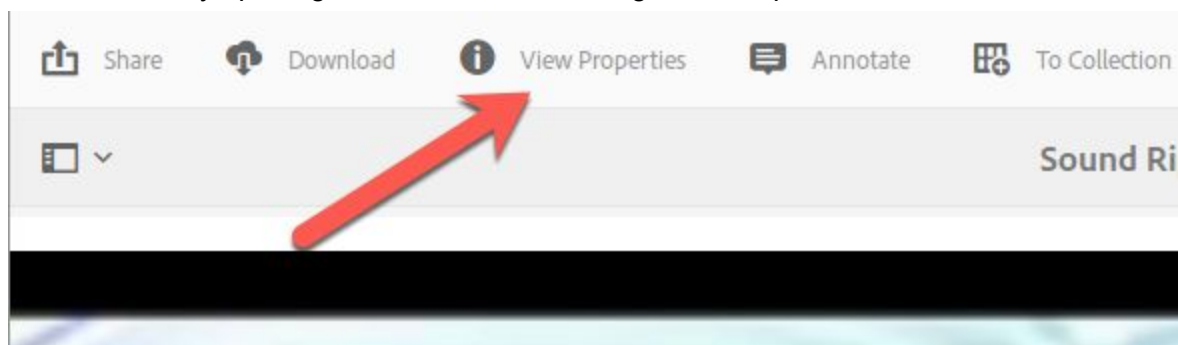
	Title	Published
35	Star Trails on the Sky Classic UI ...	55 978118001.mp4
34	Sound Ripples Uploaded by Touch...	558 13409001.mp4

Uploading New Videos in Touch UI

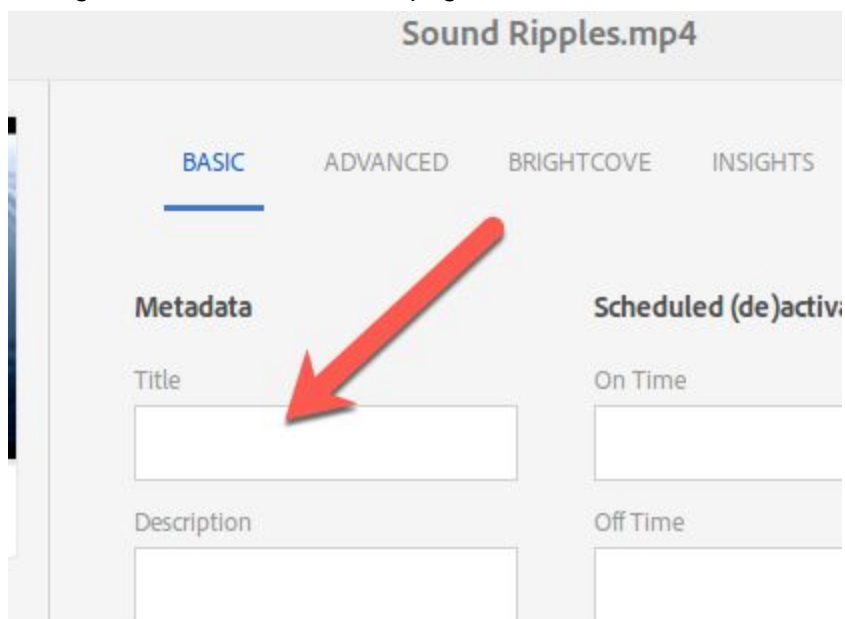
To upload a new video in the Touch UI, browse to `/assets.html/content/dam/brightcove_assets/`, open the folder for the Brightcove account you wish to use, and click Create->Files.



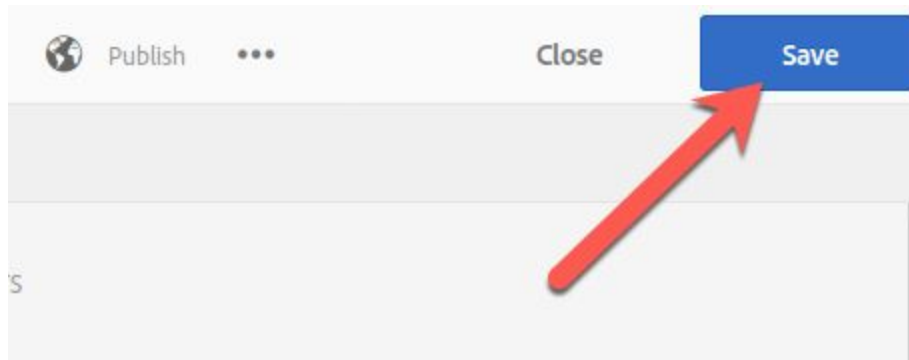
After uploading, edit the Title field as it is required to publish the video to Brightcove. The Title field is edited by opening the new asset, selecting View Properties,



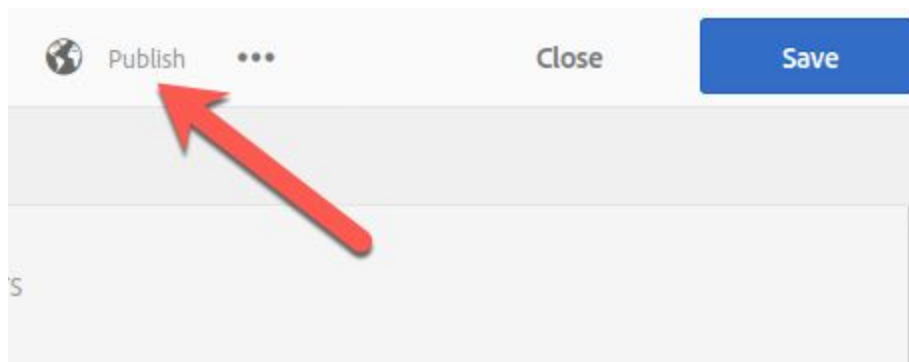
editing the Title field on BASIC page,



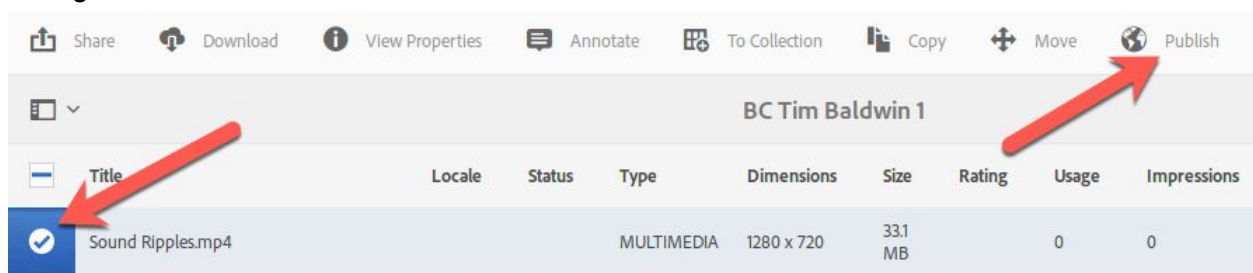
and saving.



Other metadata fields are optional, except possibly Brightcove Custom Fields. At this point the video exists in the AEM DAM only. To synchronize the video to Brightcove, select Publish inside the asset view



or select the new asset in the List, Card, or Column view and click Publish to publish the video to Brightcove.



Brightcove Administration

In previous versions of the Connector, the Brightcove Administration page at `/brightcove/admin` was used to upload videos to Brightcove and edit metadata for those videos. With the new support for the AEM DAM, the Brightcove Admin page is now generally used to only view data in the Brightcove account. For example, the Brightcove admin page shows the videos in the Brightcove account in real-time using direct API calls to Brightcove and could be used to confirm

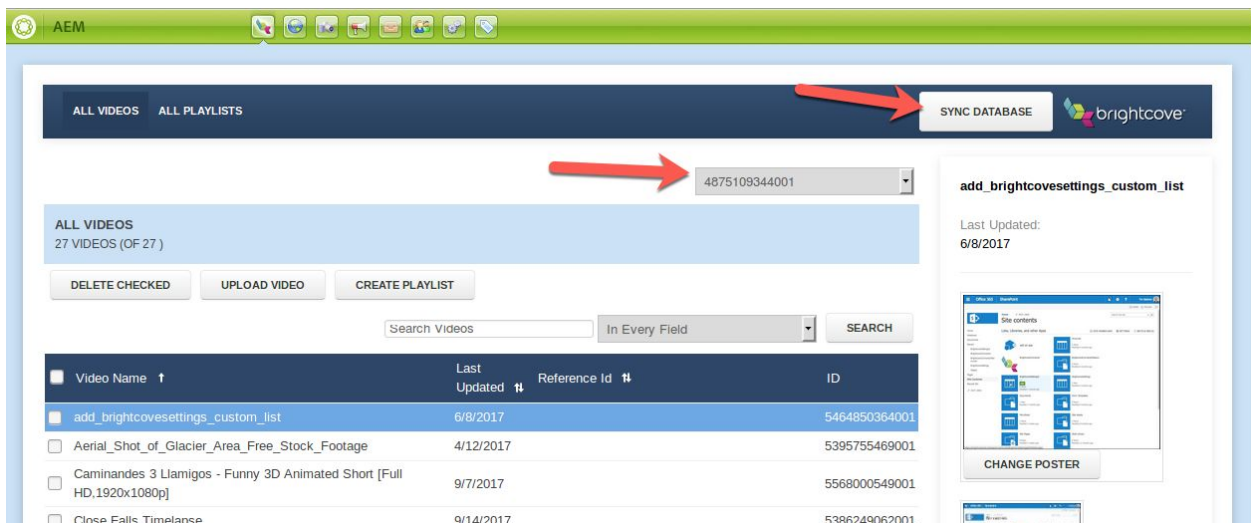
that a new video was uploaded to Brightcove or that metadata was synchronized to Brightcove by the publish process in the AEM DAM.

To verify playback from Brightcove, videos can be previewed on this Brightcove Admin page



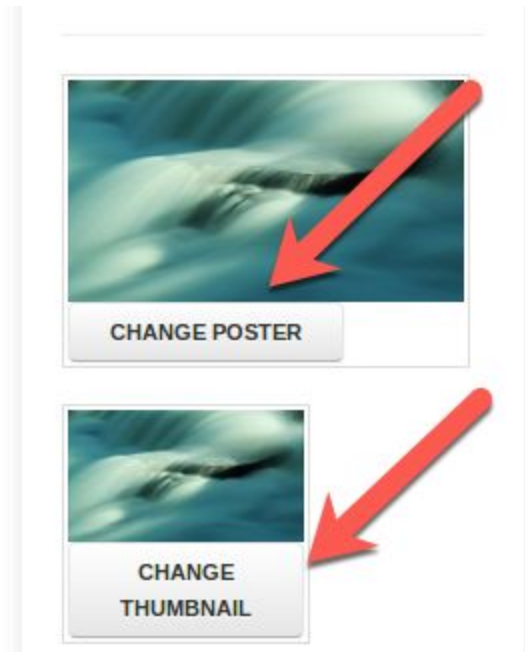
using the default video and playlist players specified on the Brightcove configuration page at /system/console/configMgr.

The Brightcove Admin page also contains a “SYNC DATABASE” button which will initiate the synchronization process from Brightcove to the AEM DAM. To synchronize, choose the Brightcove account you wish to synchronize and press the “SYNC DATABASE” button.



This synchronization process can be automated so the manual operation is not necessary.

As of this writing, the Brightcove Admin page does also offer the ability to update poster and thumbnail images for a video in Brightcove



and to add Text Tracks to a video in Brightcove



as both of these operations have not yet been implemented in the AEM DAM. The long term plan for this page is that it will only be used to view Brightcove data real-time while day to day management of video assets on Brightcove will use the AEM DAM and synchronization will run on a scheduler.