SAP COMMERCE CLOUDINARY EXTENSION INTEGRATION

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Introduction

The SAP Commerce Cloudinary Extension provides rich features such as media management, transformations, optimizations and advanced delivery features exposed via the SAP Commerce platform with a plug and play integrated extension.

This document describes the steps for the business users to utilize the features of the extension.

SAP Commerce supported versions, 1811 or later.

The SAP Commerce Cloudinary extension enables you to improve the user experience and performance of your online store. You can automatically deliver images and videos that are enhanced and optimized for customers on every screen, browser, and connection. We ensure that your product images and videos are high quality and load fast on any product catalog page, including product detail pages. With Cloudinary, you get a rich set of functionalities including cropping, resizing, transcoding, personalization, and creative transformations, like adding overlays - at scale and in real time. Cloudinary delivers all rich media through global content delivery networks (CDNs).

Cloudinary is trusted by over a million developers globally and thousands of customers ranging from small businesses to enterprise clients. Iconic ecommerce brands including Walmart Labs, Neiman Marcus, Lululemon Athletica, WholeFoods, and StubHub rely on Cloudinary's media manipulation, storage and delivery solutions.

Cloudinary Configuration in Backoffice

The Cloudinary Configuration section in the SAP Backoffice is where the setup of the extension starts. By default, the Cloudinary Configuration section is visible only to users with admin privileges, however this can be customized according to your project needs.

The Backoffice Cloudinary Configuration section is composed of multiple tabs:

- Cloudinary Configuration
- Product Catalog Transformation
- Product Gallery
- Administration (default SAP Backoffice tab)

A setup wizard guides the admin through the sections making sure that all the necessary fields/attributes are populated in order to create the Cloudinary Configuration item.

Once the Cloudinary Configuration item is created for the project, the admin user is able to check the status of the extension (enabled/disabled), update the Cloudinary connection string and synchronization target folder, review the status of the Cloudinary plan associated with the Cloudinary account and manage all the customizable attributes available in each of the Cloudinary Configuration tabs.

Add a New Cloudinary Configuration

To add a new Cloudinary Configuration item or update the values of an existing one:

1. Log into Backoffice as an admin user.

Username:		
Password:	SAP	
	Password:	

2. Search for *cloudinary* in the search box in the left-hand navigation tree.

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3. Click on CloudinaryConfiguration, then click the "+" button to create a new configuration.

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Marketing										
WCMS Cockpit										
Base Commerce										
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4. Clicking the "+" button opens a wizard to add the configuration details.

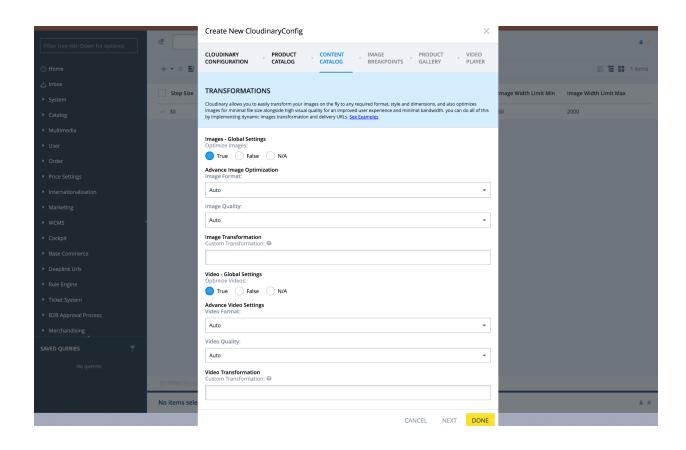
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▶ Cockpit	Step Size	CLOUDINARY PRODUCT CONTENT IMAGE PRODUCT VIDEO CONFIGURATION CATALOG CATALOG BREAKPOINTS GALLERY PLAYER mage Width Limit Min	Image Width Limit Max
 Base Commerce 	✓ 30	50	2000
		ABOUT CLOUDINARY	
Rule Engine		Cloudinary supercharges your application medial it enables you to easily upload images and videos to the cloud and deliver them optimized, via a lightning-fast CDN, using industry best practices. Perform smart resigne, and watermarks, apply effects, and much more without leaving your WordPress console or instaling any software.	
 Ticket System 		more without leaving your worderess console or installing any soltware.	
 B2B Approval Process 		Connection String: @	
 Merchandising 			
B2B Commerce		Cloudinary Folder Path:	
 Cloudinary 		Upload Preset Select upload preset: @	
CloudinaryConfiguration			
▶ yForms		CANCEL NEXT DONE	
 Order Management 			
SAVED QUERIES			
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In the Cloudinary Configuration tab, you need to specify the connection string and set the folder path where all the assets will be uploaded. There is also the option of choosing the "upload preset" set on Cloudinary's account.

In the Product Catalog step, you can specify transformations to apply globally to all the assets served by Cloudinary and belonging to the Product Catalog. They can be specified for images and for videos.

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💮 Home	+ • 🗊 🗟		🗏 🖬 1 items
📥 Inbox		TRANSFORMATIONS	
▶ System	Step Size	Cloudinary allows you to easily transform your images on the fly to any required format, style and dimensions, and also optimizes images for minimal file size alongside high visual quality for an improved user experience and minimal bandwidth. you can do all of th	Image Width Limit Min Image Width Limit Max Ithis
► Catalog	✓ 30	by implementing dynamic images transformation and delivery URLs. See Examples	50 2000
 Multimedia 		Images - Global Settings	
▶ User		Optimize Images: True False N/A	
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In the Catalog Catalog step, you can specify transformations to apply globally to all the assets served by Cloudinary and belonging to the Content Catalog. They can be specified for images and for videos.



In the Image Breakpoints tab, you can enable/disable cloudinary responsive breakpoints and can specify the Cloudinary breakpoint configuration settings.

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▶ User		True False N/A	
		Step Size:	
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The Product Gallery step allows you to enable/disable the usage of the Product Gallery, by default embedded in the Product Detail Page.

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 Multimedia 		Integrate a modern, responsive, flexible product gallery into your product detail pages on your e-commerce site. Cloudinarys Product Gallery has saved hundreds of hours of development time for iconic e-commerce brands. <u>Go to documentation, View Active demo</u>	
▶ User ▶ Order		Enable Cloudinary's Product Gallery:	
 Price Settings 		True False N/A Enter the configuration JSON to be used by the gallery.	
 Internationalization Marketing 		For a quick and easy start, use the <u>Product Gallery Editor</u> . Configure the widget as needed and copy the generated JSON to this field. E.g. ("aspectRatio": "34", "transformation".("trop:"/film)). Note that the 'cloudName'', "contained", and "medialassest" parameters set in the editor are not required and will be added/overwritten	
► WCMS		by the integration. Additional parameters are available and not offered by the editor. See <u>Product Gallery API reference</u> for the full list of parameters. Product Gallery Configuration (JSON):	
▶ Cockpit			
 Base Commerce 		CANCEL NEXT DONE	
 Deeplink Urls 		CARCEL NEAT DONE	
 Rule Engine 			
 Ticket System 			
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The Video Player step allows you to enable/disable the video component of Cloudinary to be displayed on storefront. You can also add the json string to apply transformations on the video player.

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 Multimedia 		Display videos on your e-commerce site using Cloudinarys fully responsive and customizable Video Player.		
▶ User		Go to documentation		
▶ Order		Enable Cloudinary's Video Player:		
 Price Settings 		True False N/A		
Internationalization		Enter the configuration JSON to be used by the player, For a quick and easy start, use the Video Player Studio. Configure the player as needed and copy the generated JSON to this field.		
 Marketing 		Eg.("player":("fluid":true","controls":"true") Video Player Configuration (JSON):		
► WCMS				
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Base Commerce		CANCEL DONE		
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5. Once the Cloudinary Configuration item is created successfully it is displayed similar to this:

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6. You can open the configuration to view the configuration details.

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➤ Catalog	Product Catalog					
 Multimedia 	SYNC SETTINGS					*
▶ User	Connection String 🖉 Cloudinary Folder Path					
▶ Order	cloudinary://144947451987322:srapOPfxjkl85 sap_phase2/1.0.4					
Price Settings						
Internationalization	CLOUDINARY CONNECTION					*
	Version: v1.1.0					
► WCMS	Enable Cloudinary					
Cockpit	Connected to Cloudinary					
Base Commerce	Free Classic Credits : N/A , Storage Usage : 6.07 GB (N/A) , Bandwidth Usage : 14.07 GB (N/A) , Transformation Usage : 7060 (N/A)					
Deeplink Urls	UPLOAD PRESET					*
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 Ticket System 	test					
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SAVED QUERIES	See the <u>upload presets</u> documentation					
No queries						

- 7. To modify/add any configuration value, update the value, then click the "save" button.
- 8. To enable/disable the usage of the Cloudinary extension, use the "Enable Cloudinary" switch:
 - False disables the Cloudinary connection; the status changes to "Not Connected to Cloudinary" and the plan details are not displayed.
 Note: with the Cloudinary extension disabled, assets are still deliver

Note: with the Cloudinary extension disabled, assets are still delivered from Cloudinary and include transformations in the URL.

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b. *True* - enables the Cloudinary connection; the status changes to "Connected to Cloudinary" and the plan details are displayed.

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• Order	cloudinary://144947451987322:srapOPfxJkl85 sap_phase2/1.0.4					
Price Settings						
Internationalization	CLOUDINARY CONNECTION					*
 Marketing 	Version: v1.1.0 Enable Cloudinary					
• WCMS	True False					
Cockpit	Connected to Cloudinary					
Base Commerce	Free Classic Credits : N/A, Storage Usage : 6.07 GB (N/A), Bandwidth Usage : 14.07 GB (N/A), Transformation Usage : 7060 (N/A)					
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SAVED QUERIES	See the <u>upload presets</u> documentation					
No queries						

Note - Ensure at any time you have one single Cloudinary Configuration with Cloudinary enabled.

Configuration Attributes

The table below groups all the attributes that have been introduced as part of the SAP Commerce Cloudinary extension implementation and that can be found in the Backoffice. For each attribute, you can see the DataModel name, the label used in the Backoffice and the purpose of usage.

DataModel Attribute Name	Attribute Backoffice Label	Attribute Usage
cloudinaryURL	Connection String *	Your Cloudinary Connection string, which you can find in your Cloudinary console dashboard. It is used to connect to your Cloudinary account. Refer to the tooltip in the SAP Backoffice for information on where to get the Connection String from for your Cloudinary account.
cloudinaryFolderPath	Folder Path *	The folder path in Cloudinary to which media files are uploaded when syncing them from SAP Commerce. Make sure the folder path/name does not contain the symbols ?&#\%<></td></tr><tr><td>enableCloudinary</td><td>Enable Cloudinary</td><td>This switch lets you enable/disable the Cloudinary connection. When enabled, all the features provided by the Cloudinary extension will be available. If disabled, media will still be delivered from your Cloudinary account and will include transformations that are part of the URLs. Other Cloudinary features will not be available (for example, Cloudinary breakpoints or Product Gallery).</td></tr></tbody></table>

mediaUploadPreset	Select Upload Preset	The upload preset to use to upload assets to Cloudinary.
cloudinaryImageFormat	Image Format	The global image format used for all images. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms determine the best image format to deliver based on the requesting browser. Therefore, different users can receive different formats of the same image, which Cloudinary creates on the fly. Refer to the Cloudinary Image Transformation guide.
cloudinaryQuality	Image Quality	The global image quality used for all images. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms determine the best level of compression to apply, whilst retaining acceptable visual quality. The image format plays a part in determining the quality compression level so this could be different for different users based on their browser. Refer to the Cloudinary Image Transformation guide.
globalCloudinaryImageTran sformation	Custom Transformation	A global transformation to be applied to images.
globalCloudinaryVideoTrans formation	Custom Transformation	A global transformation to be applied to videos.
enableOptimizeImage	Optimize Images	A flag to enable image optimization. When <i>true</i> , the manual configuration for image format and quality will

		be applied. If <i>false</i> , no values will be set for image format and quality.
enableOptimizeVideo	Optimize Videos	A flag to enable video optimization. When <i>true</i> , the manual configuration for image format and quality will be applied. If <i>false</i> , no values will be set for image format and quality.
cloudinaryVideoFormat	Video Format	The global video format used for all videos. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms determine the best format to deliver based on the requesting browser. Therefore, different users can receive different formats of the same video, which Cloudinary creates on the fly. Refer to the Cloudinary <u>Video</u> <u>Optimization guide</u> .
cloudinaryVideoQuality	Video Quality	The global video quality used for all videos. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms determine the best type of encoding to apply, whilst retaining acceptable visual quality. Refer to the Cloudinary <u>Video</u> <u>Optimization guide</u> .
cloudinaryContentImageFor mat	Image Format	The global image format used for all images. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms

		determine the best image format to deliver based on the requesting browser. Therefore, different users can receive different formats of the same image, which Cloudinary creates on the fly. Refer to the Cloudinary Image Transformation guide.
cloudinaryContentImageQu ality	Image Quality	The global image quality used for all images. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms determine the best level of compression to apply, whilst retaining acceptable visual quality. The image format plays a part in determining the quality compression level so this could be different for different users based on their browser. Refer to the Cloudinary Image Transformation guide.
cloudinaryContentGlobalIma geTransformation	Custom Transformation	A global transformation to be applied to images.
cloudinaryGlobalContentVid eoTransformation	Custom Transformation	A global transformation to be applied to videos.
enableOptimizeContentImag e	Optimize Images	A flag to enable image optimization. When <i>true</i> , the manual configuration for image format and quality will be applied. If <i>false</i> , no values will be set for image format and quality.
enableOptimizeContentVide o	Optimize Videos	A flag to enable video optimization. When <i>true</i> , the manual configuration for image format and quality will

		be applied. If <i>false</i> , no values will be set for image format and quality.
cloudinaryContentVideoFor mat	Video Format	The global video format used for all videos. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms determine the best format to deliver based on the requesting browser. Therefore, different users can receive different formats of the same video, which Cloudinary creates on the fly. Refer to the Cloudinary <u>Video</u> <u>Optimization guide</u> .
cloudinaryContentVideoQua lity	Video Quality	The global video quality used for all videos. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms determine the best type of encoding to apply, whilst retaining acceptable visual quality. Refer to the Cloudinary <u>Video</u> <u>Optimization guide</u> .
cloudinaryResponsive	Responsive Breakpoints	Flag to enable/disable responsive breakpoints.
cloudinaryByteStep	Step Size	The user defined step size between breakpoints, expressed in pixels.
cloudinaryImageWidthLimit Max	Image Width Limit Max	The maximum image width for the breakpoint.
cloudinaryImageWidthLimit Min	Image Width Limit Min	The minimum image width for the breakpoint.
enableCloudinaryGalleryWid	Enable Cloudinary's Product	This lets you enable/disable

get	Gallery	the Product Gallery.
cloudinaryGalleryConfigJso nString	Product Gallery Configurations (JSON)	Use this to provide configuration JSON for the Product Gallery.
enableCloudinaryVideoPlay er	Enable Cloudinay's Video Player	This lets you enable/disable the Video Player.
videoPlayerTransformation	Video Player Configuration (JSON)	Use this to provide configuration JSON for the Video Player.

* Connection String and Folder Path notes

- Only one Cloudinary account at a time should be used with your SAP Commerce installation.
- If your Cloudinary connection string changes, make sure to update it accordingly in the SAP Backoffice.
- When copying your connection string from your Cloudinary dashboard, you must be logged into Cloudinary as an admin user.
- The folder path is the location in your Cloudinary account where all your assets from SAP Commerce are synced to.
 DO NOT change, rename or delete the folder in your Cloudinary account when your site.

DO NOT change, rename or delete the folder in your Cloudinary account when your site is live.

Media Assets Synchronization to Cloudinary

The synchronization of the media assets from SAP Commerce to Cloudinary allows you to upload all the existing SAP Commerce media to your Cloudinary account.

During the first setup of the extension you might have a lot of media already present in your SAP Commerce Backoffice. This media is uploaded to your Cloudinary account as part of the **cloudinaryMediaUploadSyncCronjob** execution.

Note - During your Cloudinary account setup and before starting the first synchronization of your SAP Commerce media, make sure that for any default Cloudinary upload preset, the files will be uploaded with a unique public ID. This means that if the "Use filename or externally defined public ID" option is enabled, the "Unique filename" option must also be enabled.

After the first setup, the sync cronjob uploads a new media file to Cloudinary every time one is created in SAP Commerce Backoffice via the OOB upload step (refer to the *Upload Media Assets* section below).

Note - The synchronization is one-way. After the assets have been synchronized/uploaded to your Cloudinary account, the SAP media will refer to the *media URL* as the *Cloudinary URL* and the media will be delivered using this URL.

<u>Do not</u> delete/move/rename any of the media files from your Cloudinary account that are associated with a media URL in SAP Commerce. Doing so will make the asset not accessible from your site storefront.

Sync Media Assets to Cloudinary

To sync the media assets from SAP Backoffice to Cloudinary:

- 1. Log into Backoffice as an admin user.
- 2. Search for *cronjob* in the search box in the left-hand navigation tree.
- 3. Search for *cloudinaryMediaUploadSyncCronjob* in the search box at the top.



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cronjob	CloudinaryMediaUploadSyncCronjo	b SEARCH								▲ ☆
▼ System	+ • 🖻 🗗 🏝 🏣							≣∎		1 items
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	 cloudinaryMediaUploadSyncCronjob 	cloudinaryMediaUploadSyncJob	FINISHED	SUCCESS	Daily at 00:00:00					

4. Open the editor area of the "cloudinaryMediaUploadSyncCronjob" cronjob.

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5. Go to the "**Unbound**" section of the "**Administration**" tab and select the catalog version for which you want to sync the media assets to Cloudinary.

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SAVED QUERIES	ActiveCronJobHistory	Documents			Assigned Cockpit Item Templates			1	/5		
No queries		+ Create new Outp	ut Document	•							
	Changes	Comments			CronJobHistoryEntries	Er	ror mode				
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6. Click on the Sync icon to trigger the cronjob.

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	cloudinaryMediaUploadSyncCronjob cloudinaryMediaUploadSyncJob FINISHED SUCCESS Daily at 00:00:00				
	cloudinaryMediaUploadSyncJob : cloudinaryMediaUploadSyncCronjob - FINISHED - SUCCESS				≞ ×
	ت 🕑 🕑 🛃	$\bullet \rightarrow$	REFRESH	SA	
	LOG TASK RUN AS TIME SCHEDULE SYSTEM RECOVERY				
	UNBOUND				*
SAVED QUERIES	ActiveCronJobHistory Documents Assigned Cockpit Item Templates Source catalog	versions to sy	nc		
No queries	••• + Create new Output Document •• ••• Apparel Production	ict Catalog : Sta	aged		

7. You can verify if the cronjob is completed, in the "Log" tab.

Admin	istration Cockpit 👻			ಚ್ 🧿 🗹	@ U	
cronjob	CloudinaryMediaUploadSyncCronjob		₽ >			
▼ System	cloudinaryMediaUploadSyncJob : cloudinary	yMediaUploadSyncCronjob - FINISHED - SUCCESS			≜ ⊗	
 Background Processes 	± C €.			REFRES	H SAVE	
👩 CronJobs	LOG TASK RUN AS TIME SCHEDULE SYSTEM RECOVERY ADMINISTRATION					
	ESSENTIAL				*	
	Code	Current status	Job definition	Last result		
	cloudinaryMediaUploadSyncCronjob	FINISHED -	cloudinaryMediaUploadSyncJob	SUCCESS	-	
	Timetable	Last start time	Enabled @	Last end time		
	Daily at 00:00:00	Feb 24, 2021 12:00:00 AM	🔵 True 🔵 False	Feb 24, 2021 12:00:03 AM		

Note - During the first setup of the extension, and every time after an initialization of the system is performed, the **cloudinaryMediaUploadSyncCronjob** will take some time to complete the media upload to Cloudinary, depending on how much media there is to upload. Subsequent runs of the cronjob will sync to your Cloudinary account only the newly added media so the execution will be quicker.

Upload Media Assets

The upload functionality allows you to directly upload an asset to your Cloudinary account while creating a media item in the SAP Commerce Backoffice. Cloudinary's Media Library, which is embedded into the SAP Commerce Backoffice, provides this functionality.

Whether you are creating a new media item/new product or you are editing an existing one, the OOB flows present an additional step allowing you to load the Cloudinary Media Library and perform any action without leaving the SAP Backoffice.

You need to log into your Cloudinary account to access the Media Library.

Note - The SAP Backoffice is cookie aware, so if you have accessed your Cloudinary account and got a cookie in your browser, you will be able to load the Media Library within Backoffice, without having to enter your credentials again.

Media Creation

To create a media in SAP Commerce and associate it with a Cloudinary asset using the SAP Backoffice *Create Media Wizard*:

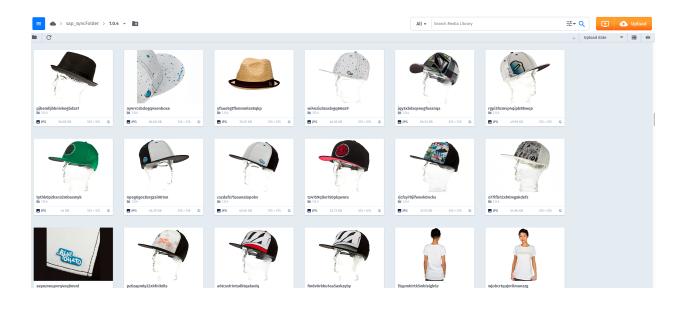
- 1. Log into SAP Backoffice as an admin user.
- 2. Search for *media* in the search box in the left-hand navigation tree and expand the *Multimedia* node. Click on Media.
- Click the "+" button to open the Create New Media wizard. Fill in the unique identifier field and select the catalog version (note - the SAP Commerce Cloudinary extension fully supports the SAP Product catalogs). Click the "Next" button.

Ad	iministration Cockpit *	
	¢ SEARCH	
	Create New Media	× = = = <
	Lidentifier Lidentifier SESENTIALS , CONTENT , Upload media content , Upload Cloudinary content	
	v my yemptyPlatfarr v my xpCanonLoven	og : Online
	xpCanonLovert Catalog version:	og : Staged
	weight the second	og : Online og : Staged
	V 🔳 xpCanonLoven	og : Online
	CanonLoverInegree_requere_requere_requere_requere_requere_inages_in	CANCEL og : Staged
	xpCanonLoverElec_1400x440_HomeSpeed_EN_1400W.jpg image/jpeg images - images	Electronics Content Catalog : Staged

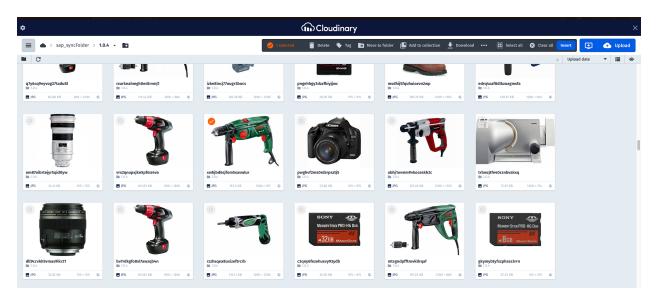
4. To associate the media with an asset from the Cloudinary Media Library, go to the "CONTENT - Upload Cloudinary content" tab, then click the "SELECT ASSET" button.

Admir		
Media	¢ SEARCH	
 Multimedia 	Create New Media	× = = = =
👹 Media	Identifier ESSENTIALS CONTENT CONTENT Upload media content Upload media content Upload Cloudinury content	
🖉 Media Containers	yemptyPlatforr Select Asset from Cloudinary	
	xpCanonLoveri SELECT ASSET	og : Online
	V 🗰 xpCanonLover	og : Staged
	V 🗰 xpCanonLoveri	og : Online
	V 🗰 xpCanonLover	og : Staged
	v 💼 xpCanonLover.	og : Online
	ACK CANCEL DOT	og : Staged
	v 🖛 xpCanonLoverExec_r400x440_homespeed_exe_r400w.jpg images/peg images - images - exectionics conten	t Catalog : Online
	V 🛥 xpCanonLoverElec_1400x440_HomeSpeed_EN_1400W.jpg image/jpeg images - images Electronics Conten	t Catalog : Staged

5. On clicking the "SELECT ASSET" button the Cloudinary Media Library opens.



6. Select an asset and then click the "Insert" button to upload the asset.



7. After a successful upload, the media asset's public ID will appear as shown in the screen below.

Admini	tration Cockpit 👻	2ª O L ()
Media	থ SEARCH	4 × .
▼ Multimedia	Create New Media	× = = = = 4 1 /1941 > 97010 items
😸 Media	ESSENTIALS All required fields Upload media content Upload Cloudinary content	ent
Media Folders	yemptyPlatforr Select Asset from Cloudinary	
Media Formats	PTR-DEV sync 02/file_fytolb.jpg	og : Online
🔠 Media Contexts	xpCanonLover	og : Staged
	V 📼 xpCanonLover	og : Online
	V 🖬 xpCanonLoveri	og : Staged
	xpCanonLover	og : Online
	xpCanonLoverl BACK	CANCEL DONE DONE
	xpCanonLoverElec_1400x440_HomeSpeed_EN_1400W.jpg image/jpeg images - in	nages Electronics Content Catalog : Online
	xpCanonLoverElec_1400x440_HomeSpeed_EN_1400W.jpg image/jpeg images - in	mages Electronics Content Catalog : Staged
	xpCamerasElec_960x380_HomeSpeed_EN_01_960W,jpg image/jpeg images - in	mages Electronics Content Catalog : Online
	xpCamerasElec_960x380_HomeSpeed_EN_01_960W.jpg image/jpeg images - in	mages Electronics Content Catalog : Staged
SAVED QUERIES	xpCamerasElec_770x350_HomeSpeed_EN_01_770W.jpg image/jpeg images - in	mages Electronics Content Catalog : Online
	xpCamerasElec_770x350_HomeSpeed_EN_01_770W.jpg image/jpeg images - in	mages Electronics Content Catalog : Staged
No queries	mage/peg images-in 0 ITENS SELECTED	mages Electronics Content Catalog : Online
	No items selected	£ &

Note - In line with SAP Commerce concept of Media, you can upload/associate only one asset at a time.

8. Clicking the "**Done**" button creates media in SAP Commerce.

Media Update

To update an existing media:

1. Search for the media to update.

Admin	istration Cockpit 🔻		zf 🔿 🗹 🕲	! ()
Media	4 testProductMedia	SEARCH		▲ ☆
	+ - ☆ ☆ ※= ▷ - ₽		≡ च ∷	1 items
🛗 Media	Identifier Mime type Folde	r Sync stat Catalog version		
Media Containers	testProductMedia image/jpeg root -	null Apparel Product Catalog : Staged		
 펢 Media Formats				
🔛 Media Contexts				
	0 ITEMS SELECTED			
	testProductMedia - Apparel Product Catalog :	Staged		≙ ≽
	± C		♦ REFRESH	
	GENERAL METADATA SECURITY ADMINISTRATI	ON		
	ESSENTIAL			*
SAVED QUERIES	Identifier	Catalog version		
No queries	testProductMedia	Apparel Product Catalog : Staged		
	GENERAL			*
	РК:			

2. Click on the media to open the editor area.

Scroll down to see the section named "CLOUDINARY MEDIA ATTRIBUTES" where the Cloudinary response data is saved.

Admir	istration Cockpit 🔻			ප් 💿 🗹 🧐 ර
Media	C testProductMedia	SEARCH		≜ >
	testProductMedia - Apparel Product Catalo	g : Staged		≞ ⇒
	ŵ ¢			REFRESH SAVE
🛅 Media Folders	GENERAL METADATA SECURITY ADMINISTR	ATION		
😸 Media Containers				
🔠 Media Formats	PROPERTIES			*
🐰 Media Contexts	URL	Mime type	Real filename	Media format
	https://res.cloudinary.com/dfxfvh43r/image/uplo	ai image/jpeg		
	Media container	Folder	Supercategories	
	•	root - null		
		MOVE MEDIA		
	CLOUDINARY MEDIA CONTENT			*
				•
	CLOUDINARY MEDIA ATTRIBUTES			\$
	Cloudinary Image URL	Resource Type	Туре	Public Id
SAVED QUERIES T	https://res.cloudinary.com/dfxfvh43r/image/uplo	image	upload	PTR-DEV sync 02/file_fytolb
	Transformation	Override Transformation	Format	Version
		🗌 🔿 True 📄 False 🔵 N/A	gqi	v1614223133

The following table shows the list of attributes populated from the Cloudinary response.

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
cloudinaryURL	Cloudinary Delivery URL	The URL required to access the asset in Cloudinary.
cloudinaryResourceType	Resource Type	The resource type of the asset, for example, "image" or "video".
cloudinaryType	Туре	The Cloudinary delivery type, for example, "upload".
cloudinaryPublicId	Public Id	The public ID of the Cloudinary asset.
cloudinaryTransformation	Transformation	The transformation string(s) associated with the media.
isCloudinaryOverride	Override Transformation	The switch to override the Product Catalog and/or Category level transformation(s) with Media/Asset level transformation(s).
cloudinaryMediaFormat	Format	The media format, for example, "jpg" or "png".
cloudinaryVersion	Version	The version of the asset in Cloudinary.

- 3. To update the media asset, click the "SELECT ASSET" button from the editor area.
- 4. To sync media from the staged to the online version of the catalog, click the *Sync* button as shown below.

Adm	inistration Cockpit 👻			e 💿 🗹 🕸 (5
Media	C testProductMedia	SEARCH			¥
■ Multimedia	testProductMedia - Apparel Product Catalog	; : Staged		e	k S
뚭 Media	(0)			REFRESH SW	
🛅 Media Folders	GENERAL METADATA SECURITY ADMINISTRA	TION			
📑 Media Containers	URL	Mime type	Real filename	Media format	
🔛 Media Formats	https://res.cloudinary.com/dfxfvh43r/image/uploa	image/jpeg			
👑 Media Contexts	Media container	Folder	Supercategories		
		root - null			
		MOVE MEDIA			
	CLOUDINARY MEDIA CONTENT				\$
	SELECT ASSET				



Associate Media to Existing Product

The steps below describe how to associate an existing media to a product. This is a key step that will trigger the tagging of the media in the Cloudinary account.

Once a media is associated with a product and has been correctly tagged, it will be displayed in all the pages where the product images are required e.g. in the product details page within the Cloudinary Product Gallery.

1. To associate a media to a product, navigate to the product tab and search for any product from the same catalog of the media (e.g. Apparel Product Catalog).

Adminis	ation Cockpit 👻		2 ⁶ O L O U
Product	🝳 Product Q Global Operator: And 👻	Include subtypes SEARCH	≜ ∧
	Attribute Comparator Value	Sort Order	
Products	Article Number Contains	\odot	×
Product Variant Types Configuration for Complex Products	Identifier Contains • en •	\odot	×
 Price Settings 	Catalog version Equals - Apparel Product Ca	talog : Staged	×
✓ Prices	Product variants type		×
▼ Taxes	Alternative ID		+
 Product Tax Classes Discounts 	+ • ■ \$ & @ # % E E • ₽		∃ TE ■ 4 1 /39 → 1936 items
💣 Product Discount Classes	Article Numb Identifier		Status Catalog version
 Marketing 	Shade Accessories Spy Omega Lens persimmon		Apparel Product Catalog : Staged
🐲 Product References	 300441142 Cap Blue Tomato BT Snow Trucker Cap black 		Apparel Product Catalog : Staged

2. Select a product to open the editor area and go to the "Multimedia" tab.

Admin	istration Cockpit 🔻			ප් 💿 🗹 🕸 එ
Product	থ Product Q Global Oper	ator: And 👻 🔽 Include subtypes	SEARCH 🗎	₽ \$
	Snowboard Ski Tool Toko Waxremover HC3 5	i00ml [45572] - Apparel Product Catalog : Sta	ged	≙ ⇒
	in e₽ ¢			REFRESH SAVE
💕 Product Variant Types	PROPERTIES ATTRIBUTES BUNDLING CATEGO	DRY SYSTEM PRICES MULTIMEDIA VARIANTS	EXTENDED ATTRIBUTES REVIEWS STOCK ADI	MINISTRATION
 Configuration for Complex Products 				
 Price Settings 	ESSENTIAL			*
 Prices 	Article Number	Identifier	() Catalog version	Approval
💕 Product Price Classes	45572	Snowboard Ski Tool Toko Waxremover HC3 500	Apparel Product Catalog : Staged	approved 👻
 Taxes 				
💕 Product Tax Classes	IMAGES			*
 Discounts 	Image	Thumbnail		
💣 Product Discount Classes	/300Wx300H/45572_1.jpg - Apparel Product	/96Wx96H/45572_1.jpg - Apparel Product Cat		
▼ Marketing				
🎭 Product References	ADDITIONAL MULTIMEDIA OBJECTS			*
1 Product reviews	Specifications	Details	Logos	Normals
SAVED QUERIES		•	••	/300Wx300H/45572_1.jpg - Apparel Product
	Others	Thumbnails	Gallery Images	
	/1200Wx1200H/45572_1.jpg - Apparel Produc	/96Wx96H/45572_1.jpg - Apparel Product Cat	[45572_1] - Apparel Product Catalog : Staged	
	/515Wx515H/45572_1.jpg - Apparel Product		[a4d28bac-678e-492a-904d-79a50098c824] - /	<u>ар</u>

3. From the "**Gallery Images**" attribute, create a new media container and assign the desired media to the media container, as shown:

Admin	inistration Cockpit *	
Product	Q Product Q Global Operator: And V Include subtypes SEARCH	₽ >
	Snowboard Ski Tool Toko Waxremover HC3 500ml [45572] - Apparel Product Catalog : Staged	≜ ⊗
		REFRESH SAVE
💕 Product Variant Types	PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIBUTES REVIEWS STOCK ADMINISTRATION	
 Configuration for Complex Products 		
 Price Settings 	IMAGES	*
 Prices 	Image Thumbnail	
💕 Product Price Classes	1 /300Wx300H/45572_1.jpg - Apparel Product 1 /96Wx96H/45572_1.jpg - Apparel Product Cat [30404_3] - Apparel Product Catalog : Staged	
▼ Taxes	[9a0d2448-777a-4568-accf-929a38ad6b12] - Apparel Product Catalog: Online	
💕 Product Tax Classes	ADDITIONAL MULTIMEDIA OBJECTS [a4d28bac-678e-492a-904d-79a50098c824] -	*
 Discounts 	Specifications Details Apparel Product Catalog : Online Normals	
💣 Product Discount Classes	[44028bac-678e-492a-904/-79a50098c824] - Apparel Product Catalog: 5 taged 1 / 300Wx300/	H/45572_1.jpg - Apparel Product
 Marketing 	Г/с871231-6be8 4e2d-aee2-99e1b20398d6] -	
🔩 Product References	Others Thumbnails (7/37/231-0008-462/398102/039800) - Apparel Product Catalog : Online	
1 Product reviews	1 /1200Wx1200H/45572_1.jpg - Apparel Produc	
SAVED QUERIES	1 /515Wx515H/45572_1.jpg - Apparel Product	
	1 /300Wx300H/45572_1.jpg - Apparel Product	
	1 /96Wx96H/45572_1.jpg - Apparel Product Cat	
	1 /65Wx65H/45572_1.jpg - Apparel Product Cat	

Admin	istration Cockpit 🝷					e 💿 🗹 🕨 (5
Product	ି Product	Q Global Operator: And 👻	Include subtypes SEA	RCH B		٩	×
▼ Catalog	Snowboard Ski Tool To	Create New Media Container		×		٩	×
Products	in @ ¢	MANDATORY VALUES				REFRESH SAV	
💕 Product Variant Types	PROPERTIES ATTRIBUTI	Catalog version:					
 Configuration for Complex Products 		Apparel Product Catalog : Staged					
 Price Settings 	IMAGES	Name:		0			*
▼ Prices	Image	testMediaContainer					
🕼 Product Price Classes	/300Wx300H/45572_1	Qualifier:					
▼ Taxes		1200WX1200H_TestProductMedia					
💕 Product Tax Classes	ADDITIONAL MULTIM	Time created:					~
 Discounts 	Specifications						
💣 Product Discount Classes						/300Wx300H/45572_1.jpg - Apparel Product	
 Marketing 				CANCEL DONE			
😜 Product References	Others	Thumbnails		Gallery Images			
<u> </u> Product reviews	r /1200Wx1200H/4557	1.jpg - Apparel Produc		[45572_1] - Apparel Product Catalog	: Staged		
SAVED QUERIES	/515Wx515H/45572_1	.jpg - Apparel Product		[a4d28bac-678e-492a-904d-79a5009	8c824] - Ap		
No queries	/300Wx300H/45572_1	.jpg - Apparel Product					
	r /96Wx96H/45572_1.jp	g - Apparel Product Cat					
	<pre>/65Wx65H/45572_1.jp</pre>	g - Apparel Product Cat					

4. Make sure to use the same catalog version used to create media.

Adminis	stration Cockpit	*				2ª O 🗹 🕲 U
Product	C Produc			SEARCH		≜
	Snowboard	Edit item testMediaContainer [1200 Staged	WX1200H_TestProductMedia] - Apparel F	Product Catalog : ×	
Products	1 🖗 🗘	ū	REFRESH	SAVE	[45572_1] - Apparel Product Catal	♦ REFRESH SAVE
📲 Product Variant Types	PROPERTIES	COMMONS METADATA ADMINISTRATION			[a4d28bac-678e-492a-904d-79a5	NISTRATION
 Configuration for Complex Products 					testMediaContainer [1200WX120	
▼ Price Settings	IMAGES	ESSENTIAL		*		*
	Image	Qualifier	Catalog version			
💕 Product Price Classes	# /300Wx30	1200WX1200H_TestProductMedia	Apparel Product Catalog : Staged			
▼ Taxes		Conversion Group @	Conversion Status			
💕 Product Tax Classes 🔹	ADDITIONAL		EMPTY	-		*
▼ Discounts	Specifications					Normals
🌮 Product Discount Classes		PROPERTIES		*		
▼ Marketing		Name	Medias			
🖏 Product References	Others	testMediaContainer				
<u> </u>	r /1200Wx1		CONVERT MISSING MEDIAS			
SAVED QUERIES 🛛 🔻	r /515Wx51					
No queries	# /300Wx30					
	∎ /96Wx96H	CONVERSION EDRORE				***
	∎ /65Wx65H	/45572_1.jpg - Apparel Product Cat				

Admini	stration Cockpit	*				5° 🖸 🗹 🔞
	C Produc	t Q Global Operator: And	Include subtypes SEARC	нВ	8	≜ ≯
	Snowboard	Edit item testMediaContainer [1200W Staged	 Content Catalog : Online 	rel P	Product Catalog : $ imes$	≜ ⊗
	1 🖻 🗘	ū	testVideo - Apparel UK Content Catalog : Staged		[45572_1] - Apparel Product Catal	REFRESH SAVE
	PROPERTIES	COMMONS METADATA ADMINISTRATION	testProductMedia - Apparel Product + Catalog : Staged	F.	[a4d28bac-678e-492a-904d-79a5	
	IMAGES	ESSENTIAL	TestMedia - Apparel UK Content Catalog Staged	\$	testMediaContainer [1200WX120	*
	Image	Qualifier	testcnamemedia_96Wx96H - Apparel	Î		*
	1 /300Wx30	1200WX1200H_TestProductMedia	Product Catalog : Online + Create new Media	-		
		Conversion Group @	1 /9			
	ADDITIONAI					Normals
		PROPERTIES		*		• /300Wx300H/45572_1.jpg - Apparel Product
		Name (0	Medias			
	Others	testMediaContainer	test			
	# /1200Wx1		CONVERT MISSING MEDIAS			
	r /515Wx51					
	# /300Wx30					
	∎ /96Wx96H.					
	∎ /65Wx65H.	/45572_1.jpg - Apparel Product Cat				

5. Now create a conversion group, add the media formats for which you want to generate media and attach it to the media container, as shown:

	ConversionGroupModel Include subtypes SEARCH (8796270723473@3) WX1200H_TestProductMedia] - Apparel Product Catalog : X	₽ \$
	Snowboard S ConversionGroupModel (8796270590705@3)	â #
	E ConversionGroupModel REFRESH SAVE [45572_1] - Apparel Product Catal	♦ REFRESH SAVE
	[a4d28bac.678a.492a.904d.79a5	
	(8796270625169@3) testMediaContainer [1200WX120	
	ConversionGroupModel (8796270592401@3)	*
	t /300Wx30 + Create new Conversion Group * Apparel Product Catalog : Staged	
	√ 4 1 /233 → → → → → → → → → → → → → → → → → →	
	ADDITIONAL UNCONVERTED ~	*
	Specifications	
	PROPERTIES	/300Wx300H/45572_1.jpg - Apparel Product
	Name 🔞 Medias	
	Others testMediaContainer IF testProductMedia - Apparel Product Ca	
SAVED OUERIES	1 /1200Wx1	
	CONVERT MISSING MEDIA	
	T /96Wx96h	
	1 /55Wx65H/45572 1.jpg - Apparel Product Cat	

Admir		
cronjob	42 Product Q. Global Operators And 🔹 🗹 Include subtypes SGADCH 🗎	
▼ System	Edit item ConversionGroupModel (8796289663377@0)	
 Background Processes 	REFRESH SAVE	
👌 CronJobs	PROPERTIES COMMONS ADMINISTRATION ISTRATION	
	ADDITION ESSENTIAL ESSENTIAL Identifier TessConversionGroup PROPERTIES Name ConversionGroup.supportedMediaFormats	
	Specifications	
	30Wx30H [30Wx30H]	
	Tablet [tablet]	
~	65Wx65H [65Wx65H]	
SAVED QUERIES	r /515Wx51	
No queries	1/300/W30	
	+ Create new Media Format 👻	
	t /65Wx455H/45572_11.jpg-Apparel Product Cat	

6. Now trigger the **CloudinaryTransformationCronJob**, for that particular catalog version to generate the media for the different media formats associated with the conversion group.

A	Iministration Cockpit *			5° O L & U			
cronjob	Cronjob	Q Global Operator: And 👻 🗹	Include subtypes SEARCH	۵ 🖇			
	Attribute	Comparator Value	Sort Order				
	Code	Starts With 👻 cloudinary	\odot	×			
	Job definition	Equals 👻	•••	×			
	Current status	Equals •	• (A)	×			
	Last result	Equals -	 	×			
	Alternative Data Source 👻	Equals -		+			
	cloudinaryMediaTransform	ationJob : cloudinaryMediaTransformation	Cronjob - FINISHED - SUCCESS	۵			
	± &			REFRESH SAVE			
	LOG TASK RUN AS TIME:	LOG TASK RUN AS TIME SCHEDULE SYSTEM RECOVERY ADMINISTRATION					
	ESSENTIAL			1			
	Code	Current status	Job definition	Last result			
WED QUERIES	cloudinaryMediaTransformatio	onCronjob FINISHED	cloudinaryMediaTransformationJob	SUCCESS -			
	Timetable	Last start time	Enabled @	Last end time			

7. Make sure to set the correct catalog version in the Administration tab, *Catalog Versions* attribute. Run the cronjob.

Admi							
cronjob	Cronjob Q Global Ope	rator: And 👻 🔽 Include subtypes S	EARCH 🗎	₽ \$			
🕜 Home	cloudinaryMediaTransformationJob : cloudinaryMediaTransformationCronjob - FINISHED - SUCCESS						
📩 Inbox	± C ⊂ ∉*			REFRESH SAVE			
▼ System	LOG TASK RUN AS TIME SCHEDULE SYSTEM RECOVERY ADMINISTRATION						
▶ OAuth							
CORS Filter	UNBOUND			*			
 Advanced Configuration 	ActiveCronJobHistory	Documents	Assigned Cockpit Item Templates	CloudinaryMediaTransformationJob.catalogVersions			
▶ Tools		+ Create new Output Document 🔹		Apparel Product Catalog : Staged			
Output Documents							
 Workflow Administration 	Changes	Comments	CronJobHistoryEntries	Error mode			
 Validation 	+ Create new Change descriptor		cloudinaryMediaTransformationJob : cloudinary	Ignore +			
 Scripting 			+ Create new CronJobHistory •				
Business Processes							
 Background Processes 	Maximum number of rows	Request Abort	Request abort step	Is blocked for processing			
👩 CronJobs	1000	🗌 🔿 True 📄 False 🔵 N/A	🔵 True 📄 False 🔵 N/A	◯ True ● False ◯ N/A			
SAVED QUERIES							
No queries	COPIES			*			
	Target synchronization timestamps	Source synchronization timestamps					

8. Navigate back to the staged version of the product you were editing to verify the different media formats have been generated, then run a catalog sync to propagate the changes to the online version of the product.

Admin	stration Cockpit *	99 (U
Product	Q Product Q Global Operator: And → ✓ Include subtypes SEARCH В	₽ ×
	Snowboard Ski Tool Toko Waxremover HC3 500ml [45572] - Apparel Product Catalog : Staged	⊜ ⊗
	TE 😰 🗘 () REFRESH	SAVE
💕 Product Variant Types	PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIBUTES REVIEWS STOCK ADMINISTRATION	
Configuration for Complex Products		
 Price Settings 	IMAGES	*
▼ Prices	Image Thumbnail	
S Product Price Classes	1 /300Wx300H/45572_1.jpg - Apparel Product 1 /96Wx96H/45572_1.jpg - Apparel Product Cat	
▼ Taxes		
Product Tax Classes	ADDITIONAL MULTIMEDIA OBJECTS	*
 Discounts 	Specifications Details Logos Normals	
💣 Product Discount Classes	••• •• ••• ••• ••• ••• ••• ••• ••• •••	duct
 Marketing 		
🐾 Product References	Others Thumbnails Gallery Images	
f* Product reviews	1 /1200Wx1200H/45572_1.jpg - Apparel Produc 1 /96Wx96H/45572_1.jpg - Apparel Product Cat [45572_1] - Apparel Product Catalog : Staged	
SAVED QUERIES	1 /515Wx515H/45572_1,jpg - Apparel Product [a4d28bac-678e-492a-904d-79a50098c824] - Ap	
No queries	1/300Wx300H/45572_1.jpg - Apparel Product testMediaContainer [1200WX1200H_TestProduc	
	1 /96Wx96H/45572_1.jpg - Apparel Product Cat	
	1 /65Wx65H/45572_1.jpg - Apparel Product Cat	

Create New Product and Associate Media

- 1. Navigate to "Product" from the left navigation, and click "+" to create a new product. The OOB *Create New Product* wizard is displayed.
- 2. Add "Article Number" and "Catalog Version" and click the "Next" button.

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+ • = 0 0 0	ESSENTIALS DESCRIPTION CATEGORIZATI MEDIA CLOUDINARY PRODUCT All required , Identifiers and , ON , Create media , MEDIA fields descriptions Assign to content Create Cloudinary media categories content	
Article Numb	Article Number:	Status Catalog
 ✓ ■ 300020294 	Andre Minder.	Apparel
 300441142 	· Approval:	Apparel
45572	check -	Apparel
 300047513 	Catalog version:	Appare
a 45576		Apparel
 ✓ → 30404 		Apparel
 45577 	CANCEL	Apparel
 29533 	Snowboard Ski Tool Toko Ergo Multi Guide yellow	Apparel
 Ø 300013358 	Snowboard Ski Tool Red FBI 6	Apparel

3. To add a media via the Cloudinary Media Library, navigate to the last step "CLOUDINARY PRODUCT MEDIA" and click the "SELECT ASSET" button.

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product	ঙ	SEARCH		a ∧
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Products Product Variant Types	+ • 🗈 🗘 🖉	All required , Identifiers and , ON , Ci	EDIA CLOUDINARY PRODUCT eate media , MEDIA ntent Create Cloudinary media content	= E II < 1 /143 ▶ 7148 items
 Configuration for Complex Products 	Article Num			Status Catalog version
▼ Price Settings	✓ 🚗 300020294	Select Asset from Cloudinary		Apparel Product Catalog : Staged
▼ Prices	300441142	SELECT ASSET		Apparel Product Catalog : Staged
🕼 Product Price Classes	 45572 			Apparel Product Catalog : Staged
▼ Taxes	300047513			Apparel Product Catalog : Staged
💕 Product Tax Classes 🔹	- 🧀 45576			Apparel Product Catalog : Staged
▼ Discounts	··· 30404			Apparel Product Catalog : Staged
noduct Discount Classes	 45577 	BACK	CANCEL DONE	Apparel Product Catalog : Staged
 Marketing 	 29533 	Snowboard Ski Tool Toko Ergo Multi Guide yellow		Apparel Product Catalog : Staged
🎭 Product References	ali	Snowboard Ski Tool Red FBI 6		Apparel Product Catalog : Staged
1 Product reviews	45574	Snowboard Ski Tool Toko Plexiklinge 3 mm/flexibel		Apparel Product Catalog : Staged

4. Either upload or select an existing asset from your Cloudinary account. Once upload of the asset to the SAP Commerce media is completed, the asset filename is displayed in the Create New Product wizard. Click the "Done" button to create the product.

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product	¢	SEARCH		۵. ۵
 Catalog 	0	Create New Product	×	
Products Product Variant Types	+ • 11 🗘 🤗 🤅	ESSENTIALS DESCRIPTION CATEGORIZATI All required Identifiers and ON , fields descriptions Assign to categories	MEDIA CLOUDINARY PRODUCT Create media , MEDIA content Create Cloudinary media content	
 Configuration for Complex Products 	Article Numb	Select Asset from Cloudinary		Status Catalog version
 Price Settings 	✓ 🦔 300020294	45_hpcrfq.jpg		Apparel Product Catalog : Staged
▼ Prices	300441142	SELECT ASSET		Apparel Product Catalog : Staged
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▼ Taxes	300047513			Apparel Product Catalog : Staged
🕼 Product Tax Classes	 45576 			Apparel Product Catalog : Staged
▼ Discounts	 ✓ → 30404 			Apparel Product Catalog : Staged
🥐 Product Discount Classes	 45577 	BACK	CANCEL DONE	Apparel Product Catalog : Staged
▼ Marketing	 29533 	Snowboard Ski Tool Toko Ergo Multi Guide yellow		Apparel Product Catalog : Staged
🖏 Product References	J 300013358	Snowboard Ski Tool Red FBI 6		Apparel Product Catalog : Staged
g* Product reviews	45574	Snowboard Ski Tool Toko Plexiklinge 3 mm/flexibel		Apparel Product Catalog - Staged

- 5. Open the newly created product and navigate to the *Multimedia* tab. Open *Gallery Image* and expand to validate the media has been correctly associated.
- 6. Now add a conversion group, trigger **cloudinaryTransformationSyncJob** and run the product sync, as shown in the above section, for updating the product online version.

Cloudinary Product Gallery

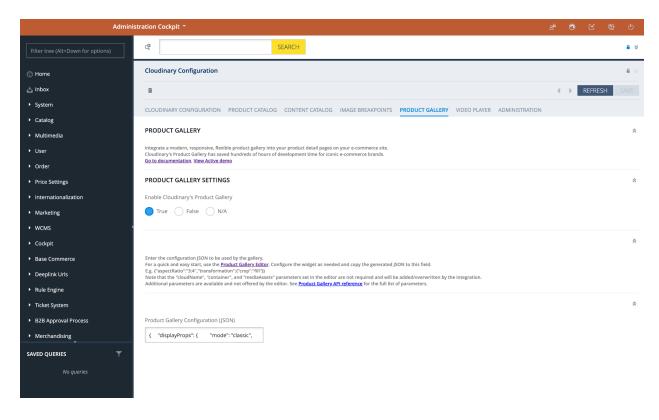
Enable Cloudinary Product Gallery

To enable the Cloudinary Product Gallery for the Product Detail Page:

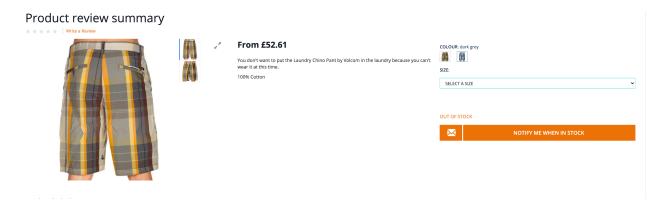
- 1. Log into Backoffice.
- 2. Navigate to Cloudinary > CloudinaryConfiguration and open the existing configuration.

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🕜 Home	Cloudinary Configuration					≜ ⊗
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System	CLOUDINARY CONFIGURATION PRODUCT CATALOG CONTENT CATALOG IMAGE BREAKPOINTS PRODUCT GALLERY VIDEO PLAYER ADMINISTRATION					
 Catalog 	Product Catalog					
 Multimedia 	SYNC SETTINGS					*
▶ User	Connection String Cloudinary Folder Path					
• Order	cloudinary://144947451987322:srapOPfxJkl85 sap_phase2/1.0.4					
Price Settings						
Internationalization	CLOUDINARY CONNECTION					*
 Marketing 	Version: v1.1.0					
► WCMS	Enable Cloudinary True Alse					
• Cockpit	Connected to Cloudinary					
Base Commerce	Free Classic Credits : N/A, Storage Usage : 6.07 GB (N/A), Bandwidth Usage : 14.07 GB (N/A), Transformation Usage : 7060 (N/A)					
 Deeplink Urls 	UPLOAD PRESET					*
 Rule Engine 	Select upload preset @					
 Ticket System 	test					
 B2B Approval Process 						
 Merchandising 						*
SAVED QUERIES	See the <u>upload presets</u> documentation					
No queries						

- 3. In the editor view, go to the "Product Gallery" Tab and set "Enable Cloudinary's Product Gallery" to *true*.
- 4. The Product Gallery can be customized using JSON. To do that, follow the guidelines in the Backoffice section (see below). You can open the <u>Product Gallery Editor</u>, set up the gallery look and feel, then copy the resulting JSON to the clipboard and paste it in the SAP Backoffice attribute, *Gallery Configuration JSON*. For further information about the many additional options available for the gallery configuration, refer to the Cloudinary <u>Product Gallery guide</u>.



- 5. Once the JSON change is saved, the changes are instantly applied and visible in your storefront.
- Browse to your storefront and select a product to land on the Product Detail Page. The Cloudinary Product Gallery will be displayed and its appearance will reflect the setup done in the Product Gallery Editor.





Display a Product 360 Spin Set

To display a 360 spin set media for the product in the Product Gallery add a *Spin Set Tag* in the *Multimedia* tab of the product.

Before doing the setup on the SAP Backoffice, make sure that the spin set assets for the product are uploaded to your Cloudinary account and they are all tagged with the same spin set tag. As per Cloudinary's spin set functionality requirements, also make sure that all the assets are named in alphabetical order according to the desired sequence. The Cloudinary spin set will be built by collating the assets into a spin set media type, following the alphabetical order of the public ID. For further information about the product 360 spin set, refer to the Cloudinary <u>Product Gallery guide</u>.

Note - The presence of a spin set tag determines whether or not the spin set is displayed on the PDP.

- 1. Navigate to Backoffice and open the editor area for a product.
- 2. Select the *Multimedia* tab and scroll down to the "Cloudinary Product Gallery Spin Set" section.
- 3. Populate the *Spin Set Tag* field with the same tag used in your Cloudinary account to identify the spin set assets for this product.

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prod	C SEARCH				•	*
	Snowboard Ski Tool Toko Ergo Multi Guide yellow [29533] - Apparel Product Catalog : Staged					
	1 (2) (2)			REFRESH	SAV	E
💕 Product Variant Types	PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIE	UTES	REVIEWS	STOCK	ADMI	NIS 🕨
 Configuration for Complex Products 						
 Price Settings 						_
▼ Prices	CLOUDINARY MEDIA					*
💕 Product Price Classes	Image Transformation String Video Transformation String Override Category Level Transformation ns					
▼ Taxes	True False N/A					
💕 Product Tax Classes						
	CLOUDINARY PRODUCT GALLERY SPIN SET					*
SAVED QUERIES	Enter the tag to use for the spin set. This tag should have been assigned to each of the assets required for the spin set in Cloud	dinary.				
No queries	Spin set tag 29533-spin-set					

Cloudinary Video Component

The Cloudinary video player is a CMS component, which can be used to display videos in a desired page slot. The Cloudinary video CMS component can be added to any page.

Prepare the Cloudinary Video Component

To enable the Cloudinary video player:

- 1. In SAP Backoffice, navigate to Multimedia > Media and create a new media via the media wizard to upload a video to Cloudinary. Select the staged catalog version and sync the media to the online one.
- 2. Navigate to WCMS > Components and search for "CloudinaryVideoComponent".

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Page Type										
Page Template		ID	Name	Catalog Version	Visib					
Content Slot Relation for a Page Template	~	CloudinaryGalleryComponent	Cloudinary Gallery Component	Apparel UK Content Catalog : Online	true					
Page	~	CloudinaryVideoComponent	Cloudinary Video Component	Apparel UK Content Catalog : Online	true					
Content Slot	~	CloudinaryVideoComponent	Cloudinary Video Component	Apparel UK Content Catalog : Staged	true					
Content Slot Relation for a Page	~	CloudinaryGalleryComponent	Cloudinary Gallery Component	Apparel UK Content Catalog : Staged	true					

- 3. Click the staged version of the video component to edit it. Go to the administration tab to view the component attributes.
- 4. In the *Video* attribute field select the media containing the video you want to display.

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Page Type	ŵ				4	REFRE	SH S	
Page Template					•	P REI R		
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Content Slot Relation for a Page		+ Create new Output Document	•		Apparel UK Content Cat	alog : Staged		
Component								
Component Type Group	Video	Comments	Component Conta	iner	Name			
Simple CMS Action	LestVideo - Apparel UK Content Catalog : Stag				Cloudinary Video Comp	onent		
Component Container	Is restricted	is blocked for processing	Style Classes 🥝		Video Transformation			
Restriction Type	🔵 True 🛑 False	🔿 True 🛑 False 🔿 N/A						
	ID		-					
SAVED QUERIES	CloudinaryVideoComponent							

5. Navigate to Cloudinary > CloudinaryConfiguration and open the existing configuration.

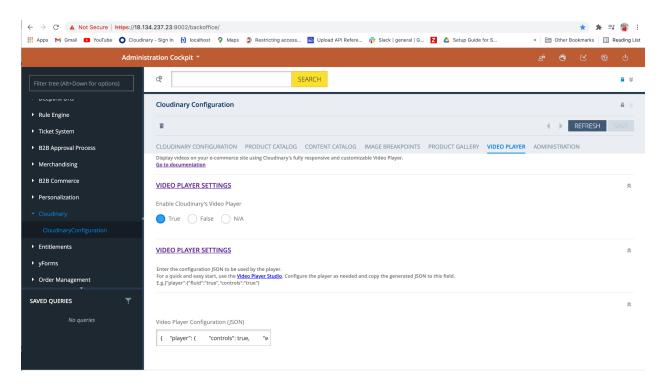
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 Ticket System 	Step Size Cloudinary Folder Path Optimize Imag Image Form Image Quali Responsive Breakpoin Image Width Limit Min	Image Width Lim
B2B Approval Process Merchandising	30 sap_phase2/1.0.4 true Auto Auto true 50	2000
B2B Commerce		
Personalization Cloudinary	0 ITEMS SELECTED	
CloudinaryConfiguration	Cloudinary Configuration	≗ ≽
 Entitlements yForms Order Management 	CLOUDINARY CONFIGURATION PRODUCT CATALOG CONTENT CATALOG IMAGE BREAKPOINTS PRODUCT GALLERY VIDEO PLAYER ADMINISTRATION	ESH SAVE
SAVED QUERIES T	VIDEO PLAYER Display videos on your e-commerce site using Cloudinary's fully responsive and customizable Video Player. So to documentation hmc.section.cloudinary.videoplayer	*
	VIDEO PLAYER SETTINGS Enable Cloudinary's Video Player	*
Application.pdf		Show all

6. In the editor view, go to the "Video Player" Tab and set "Enable Cloudinary's Video Player" to *true*.

Cloudinary

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· Deepinik ond	Cloudinary Configuration	≙ ⊗
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 B2B Approval Process 	CLOUDINARY CONFIGURATION PRODUCT CATALOG CONTENT CATALOG IMAGE BREAKPOINTS PRODUCT GALLERY VIDEO PLAYER ADMINISTRATION	
Merchandising	VIDEO PLAYER	*
B2B Commerce	Display videos on your e-commerce site using Cloudinary's fully responsive and customizable Video Player. Go to documentation	
Personalization Cloudinary		
Cloudinary Cloudinary	VIDEO PLAYER SETTINGS	*
Entitlements	Enable Cloudinary's Video Player True False N/A	
 yForms 		
 Order Management 	VIDEO PLAYER SETTINGS	*
	Enter the configuration JSON to be used by the player.	
SAVED QUERIES	For a quick and easy start, use the <u>Video Player Studio</u> . Configure the player as needed and copy the generated JSON to this field. E.g.("player':("fluid":"true", "controls":"true")	
No queries		*
	Video Player Configuration (ISON)	^
	{ "player"; { "controls": true, "w	

7. The Video Player can be customized using JSON. To do that, follow the guidelines in the Backoffice section (see below). You can open the <u>Video Player Editor</u>, set up the video settings, then copy the resulting JSON to the clipboard and paste it in the SAP Backoffice attribute, *Video Player Configuration JSON*.



Note - Only the transformations set at the component level will be applied to the Cloudinary Video Component.

Place the Cloudinary Video Component

To place the Cloudinary Video component in a specific page:

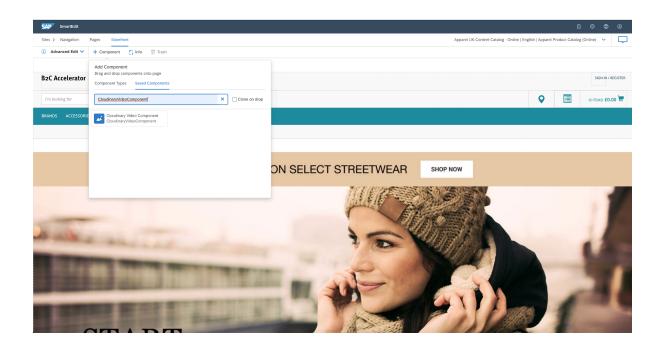
- 1. Log into Smartedit.
- 2. Select your site in the drop down and click, for example, on the STAGED "Homepage" link (shown below using the sample Apparel UK Content Catalog).

SAP SmartEdit		ê © ⊕ ©
	Your Site Appared Site UK These are the catalogs that are related to the selected site These are the catalogs that are related to the selected site 	
APPAREL UK CONTENT CATALOG		^
	LINE REPAGE PAGES NAVIGATION MANAGEMENT	Last synced from Staged 12/16/20 5:12 PM
	AGED AEPAGE PAGES NAVIGATION MANAGEMENT	Last synced Sync 12/16/20 5:12 PM

3. Once the *Homepage* is loaded, make sure to switch to the *"Advanced Edit"* mode.

SAP SmartEdit			9 ®
Sites > Navigation Pages Storefront		Apparel UK Content Catalog - Online English Apparel Product Catalog (Online)	· 📮
(i) Advanced Edit 🗸 + Component 🔓 Info 🗑 Trash			
We u Preview that we give you the best experience on our website. If you cont	inue, you agree with our policy statement.		
Basic Edit DMMERCE CLOUD, CONTEXT-DRIVEN SERVICES TRACKING		DECLINE	CCEPT
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	SAVE BIG ON SELECT STREETWEAR	SHOP NOW	
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4. Click the "+ **Component**" link at the top to add a component to the page.



- 5. Click the "Saved Components" tab to select the existing "Cloudinary Video Component" previously created and assigned with the video media. Drag and drop it to the desired slot in the page.
- 6. Approve the page change and make sure to synchronize the staged version with the online one. You can either sync the single component/slot or the entire page.
- 7. Navigate to the storefront homepage to verify that the video is successfully displayed.



Bulk Upload

The bulk upload process aims to create media in SAP Commerce in bulk for the product catalog. Given assets uploaded in your Cloudinary account, you will be able to create SAP media and assign them with the Cloudinary assets. The bulk upload can be done either via Rest API or Hot Folder.

Bulk Upload via REST API

To execute the bulk upload using REST API:

- 1. Open a REST client of your choice (e.g. Postman).
- 2. Send a <u>Get Request</u> to get "access_token", as shown:

https://<SAP-Commerce-Backend-IP>:9002/authorizationserver/oauth/token?client_id= mobile_android&client_secret=secret&grant_type=client_credentials

	KEY	VALUE	DESCRIPTION *** Bulk Edit
\checkmark	client_id	mobile_android	
\checkmark	client_secret	secret	
	grant_type	client_credentials	
	Key	Value	Description

Body Cool	kies (1) Headers	(15) Test Resu	ılts			¢2	Status: 200 OK	Time: 287 ms	Size: 703 B	Save Response 💌
Pretty	Raw Preview	Visualize	JSON 🔻	1						Q
1 { 2 3 4 5 6 }	"access_token "token_type": "expires_in": "scope": "bas	"bearer", 43199,	PiQwLxkK2cr'	√jY3uB0",						_

3. Send the following request body and access_token in the Token field of the Authorization tab.

https://<SAP-Commerce-Backend-IP>:9002/rest/v2/<your-SAP-Store-name>/bulkupload /assets

```
{
"productMediaAssest":[
    {
        "productCode":"<<pre>roduct_code>>",
        "mediaContainers":[
            {
             "mediaContainerCode":"<media_container_code>",
             "publicld":"<asset-Public-ID>",
             "resourceType":"<asset_resource_type>", //Eg - image or video
             "cloudinaryType": "upload",
             "cloudinaryMediaFormat":"<asset_media_format>" //Eg - jpg,mp4
             }
        ]
        }
}
```

- 4. Running this API call will update media for the product and will tag that media with the product code in Cloudinary.
- 5. After a successful call, Media on the product will be set and will be tagged in Cloudinary.
- 6. Media on the product can be verified in Backoffice and you can verify the tag in Cloudinary.

Bulk Upload via Hot Folder

1. Create a feed file in CSV format with all the references to update the product media. Here is a header and one sample row:

#mediacode,cloudinaryMediaFormat,cloudinaryResourceType,type,mediacontainercode, productcode,catalogid,catalogversionid

/1200Wx1200H/30404_1_1200Wx1200H,png,sap/uploadAssets/berner,image,upload,30 404_2,30404,apparelProductCatalog,Staged

- Place the feed file in the following path: "hybris/data/acceleratorservices/import/master/cloudinary".
- 3. After placing the file, the file will be picked up and placed inside the processing folder.
- 4. After completion, the media on the product will be updated.
- 5. Search for product code form requests and verify gallery images.

Product Media Tag after Bulk Upload

After the bulk upload operation is complete, the assets in your Cloudinary account need to be tagged with the associated product tag, in the format of "*sap_sku_<productCode>*".

To tag the entire batch of media you assigned to respective products during the bulk upload, you have to trigger the "**cloudinaryMediaTagUpdateCronjob**". The cron job can be triggered from Backoffice as shown in the screen below.

Note - Ensure that the cron job is pointing to the correct catalog version (Administration tab).

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cronjob	cloudinaryMediaTagUpdateCronjol	CloudinaryMediaTagUpdateCronjob SEARCH						
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👌 Cronjobs	Code	Job definition 0	Current stat Last resu	lt Timetable				
	 cloudinaryMediaTagUpdateCronjob 	cloudinaryMediaTagUpdateJob	FINISHED SUCCESS	Daily at 00:00:00				
	0 ITEMS SELECTED							
	cloudinaryMediaTagUpdateJob : clou	udinaryMediaTagUpdateCronj	ob - FINISHED - SUCCESS			≗ ≽		
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	LOG TASK RUN AS TIME SCHEDULE	SYSTEM RECOVERY ADMINIST	RATION					
	ESSENTIAL					*		
SAVED QUERIES	Code	Current status		Job definition	Last result			
	cloudinaryMediaTagUpdateCronjob	FINISHED	-	cloudinaryMediaTagUpdateJob	SUCCESS	•		
	Timetable	Last start time		Enabled Ø	Last end time			
	Daily at 00:00:00	Feb 27, 2021 12:00:1	0 AM	🔵 True 🔵 False	Feb 27, 2021 12:06:40 AM			

Cloudinary Content Catalog Transformations

Cloudinary content catalog transformations are based on the SAP media container and media concepts and are applied to all images and videos of content catalog.

Note - The SAP media container should have a single large master image uploaded to Cloudinary in a media that serves as a master media for all the transformations for that image. This master media should not have any media formats attached. Also, every SAP media format needs to have the "transformation" field set with a value for the transformation.

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
CloudinaryConfig.cloudinaryCo ntentGlobalImageTransformati on	Custom Transformation	Field to add Content Catalog image transformation.
CloudinaryConfig.cloudinaryGl obalContentVideoTransformati on	Custom Transformation	Field to add Content Catalog video transformation.

Where transformation strings are required in the forms, use URL syntax as defined in the <u>Transformation URL API guide</u>. You can chain many transformations together, as explained <u>here</u>.

Note - The transformations set at the Content Catalog level do not apply to the Video Component. The Video Component displays according to the JSON configuration.

Apply Content Catalog Level Transformations

To apply Content Catalog transformations from Backoffice:

1. Log into Backoffice, navigate to Cloudinary > CloudinaryConfiguration, select your Cloudinary configuration and open the "Content Catalog" tab.

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占 Inbox ▶ System	Step Size Cloudinary Folder Path Optimize Imag Image Form Image Quali Responsive Breakpoin Image Width Limit Min I	Image Width Limit					
 Catalog 	30 sap_phase2/1.0.4 true Auto Auto true 50 2	2000					
✓ Multimedia							
🔠 Media							
Media Folders							
🔠 Media Containers	Cloudinary Configuration	≙ ≯					
📰 Media Formats							
🛗 Media Contexts		SH SAVE					
Conversion Group	CLOUDINARY CONFIGURATION PRODUCT CATALOG CONTENT CATALOG IMAGE BREAKPOINTS PRODUCT GALLERY VIDEO PLAYER ADMINISTRATION						
SAVED QUERIES	TRANSFORMATIONS	*					
No queries	Cloudinary allows you to transform your images and videos on-the-fly to any required format, style, dimensions and quality, simply by adding transformation parameters to your delivery URLs. See examples.						
	IMAGE - SETTINGS	*					
	Optimize Images						

2. To apply a transformation to all the *Content Catalog* images, scroll to the "IMAGE - TRANSFORMATION" section and provide the required image transformation string in the *Custom Transformation* field, e.g. "e_sepia".

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🏥 Apps M Gmail 🖸 YouTube 🔘 Cloudina	ary - Sign In 🐧 localhost 💡 Maps 🧔 Restricting access 🤷 Upload API Refere 👬 Slack general G 💈 🛆 Setup Guide for S » 🛅 Other Bookmarks	🗄 Reading List
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► System	CLOUDINARY CONFIGURATION PRODUCT CATALOG CONTENT CATALOG IMAGE BREAKPOINTS PRODUCT GALLERY VIDEO PLAYER ADMINISTRATION	
 Catalog 	couuniary anows you to transionin your images and videos on-unenty to any required format, style, unnersions and quanty, simply by adding transionnation parameters to your denvery orc examples.	5. <u>388</u>
✓ Multimedia	IMAGE - SETTINGS	*
🔠 Media	Optimize Images	
Media Folders	True False N/A	
🔠 Media Containers		
📰 Media Formats	IMAGE - ADVANCED OPTIMIZATION	*
🛗 Media Contexts	Image Format Image Quality	
Conversion Group		
· · · · · · · · · · · · · · · · · · ·		
SAVED QUERIES T	IMAGE - TRANSFORMATION	*
No queries	Custom Transformation @	
	e_sepia	

Note - The image transformation strings can be concatenated in a comma separated list for multiple transformations, and chained using forward slashes to apply further transformations to the result. Make sure there are no blank spaces between the strings, e.g. "e_sharpen,r_max/e_sepia".

3. To apply a transformation to all the *Content Catalog* videos, scroll to the "VIDEO - TRANSFORMATION" section and provide the required video transformation string in the *Custom Transformation* field. Also for videos, a comma separated list of transformation strings is allowed, as well as chained transformations using forward slashes.

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Catalog		
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🔡 Media	Optimize Videos	
🖮 Media Folders	True False N/A	
🔠 Media Containers		
📰 Media Formats	VIDEO - ADVANCED OPTIMIZATION	*
🔠 Media Contexts	Video Format Video Quality	
Conversion Group	Auto • Auto •	
SAVED QUERIES		
	VIDEO - TRANSFORMATION	*
No queries	Custom Transformation 🖗	
	e_reverse	

4. Save your changes for the transformations to be applied.

Transformation Cronjob

The transformation cronjob takes care of generating different formats of the asset based on the conversion groups. Once a conversion group is attached to a specific media container with all the supported media formats with specific transformations and the transformation cronjob is run, the job automatically generates all the different transformations for the product. The job is scheduled to run every 30 minutes automatically in the background and can be rescheduled to a different interval or can be run manually.



Note - The SAP media container should have a single large master image uploaded to Cloudinary in a media that serves as a master media for all the transformations for that image. This master media should not have any media formats attached. Also every SAP media format needs to have the "transformation" field set with a value for the transformations.

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
CloudinaryMediaTransformationj ob.catalogVersions	CloudinaryMediaTransforma tionjob.catalogVersions	Add the required catalog for which the transformations need to be generated. Select the staged catalog version.

To manually run the transformation cronjob:

- 1. Log into Backoffice, navigate to System > Background Processes > Cronjobs and search for **cloudinarytransformationcronjob**.
- 2. Navigate to the *Administration* tab and search for the catalog versions field and assign the product catalog (staged catalog version) for which the transformation cronjob would generate the transformations.

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📩 Jobs		+ Create new Output Document		Apparel UK Content Catalog : Staged			
🖻 Job Logs							
🔊 Tasks	Changes	Comments	CronJobHistoryEntries	Error mode			
📩 Task Conditions	+ Create new Change descriptor		cloudinaryMediaTransformationJob : cl	Ignore -			
Distributed Import	- create new change descriptor			- Ignore			
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Cloudinary Product Transformations

Cloudinary transformations are based on the SAP media container and media concepts and are applied at different levels for images and videos, as follows:

- Product Catalog Transformations at the Product Catalog level.
- **Category Transformations** at the Category level.
- Product Transformations at the Product level.
- Asset/Media Transformations at the Media level.

Note - The SAP media container should have a single large master image uploaded to Cloudinary in a media that serves as a master media for all the transformations for that image. This master media should not have any media formats attached. Also, every SAP media format needs to have the "transformation" field set with a value for the transformation.

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
CloudinaryConfig.cloudinaryGl oballmageTransformation	Custom Transformation	Field to add Product Catalog image transformation.
CloudinaryConfig.cloudinaryGl obalVideoTransformation	Custom Transformation	Field to add Product Catalog video transformation.

Where transformation strings are required in the forms, use URL syntax as defined in the <u>Transformation URL API guide</u>. You can chain many transformations together, as explained <u>here</u>.

Note - The transformations set at the Product Catalog level do not apply to the Product Gallery. The Product Gallery displays according to the JSON configuration.

Apply Product Catalog Level Transformations

To apply Product Catalog transformations from Backoffice:

1. Log into Backoffice, navigate to Cloudinary > CloudinaryConfiguration, select your Cloudinary configuration and open the "Product Catalog" tab.

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Ticket System	Optimize Images					
 B2B Approval Process 	True False N/A					
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	Optimize Videos					
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2. To apply a transformation to all the *Product Catalog* images, scroll to the "IMAGE - TRANSFORMATION" section and provide the required image transformation string in the *Custom Transformation* field, e.g. "e_sharpen".

Cloudinary

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 B2B Approval Process 	Cloudinary allows you to transform your images and videos on-the-fly to any required format, style, dimensions and quality, simply by adding to	ansformation parameters to your delivery URLs. <u>See examples.</u>
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Note - The image transformation strings can be concatenated in a comma separated list for multiple transformations, and chained using forward slashes to apply further transformations to the result. Make sure there are no blank spaces between the strings, e.g. "e_sharpen,r_max/e_sepia".

3. To apply a transformation to all the *Product Catalog* videos, scroll to the "VIDEO - TRANSFORMATION" section and provide the required video transformation string in the *Custom Transformation* field. Also for videos, a comma separated list of transformation strings is allowed, as well as chained transformations using forward slashes.

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	e_sepia								

4. Save your changes for the transformations to be applied.

Apply Category Level Transformations

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
Category.cloudinaryImageTran sformation	Image Transformation	Field to add category level image transformation.
Category.cloudinaryVideoTran sformation	Video Transformation	Field to add category level video transformation.
Category.isCloudinaryOverride	Override Global Level Transformations	Flag to override global level transformation.

1. Log into Backoffice, navigate to Catalog > Categories and search for the required category for the products to apply the transformation on. Ensure that you select the staged catalog version of the category for which you want to apply the transformation on.

 Navigate to the "Multimedia" tab and scroll to the "Cloudinary Media" section. In the custom transformation field, provide the required image and/or video transformation. The transformation strings can be comma separated and chained with forward slashes for multiple transformations.

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*- • ··· •	Image Transformation String Video Transformation String				
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	True False N/A				

- 3. To override the global transformation applied, set "Override global level transformations" to "true".
- 4. Save the changes and click the sync icon at the top of the editor area to synchronize the changes from the staged to the online version of the catalog.

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no que res	Override	CANCEL	SYNC					

Note - When you apply category level transformations, ensure to run the full indexing job for the respective index for the transformations to be visible immediately, else the scheduled index job will pick up the changes as per the schedule.

Apply Product Level Transformations

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute			
Product.cloudinaryImageTrans formation	Image Transformation	Field to add product level image transformation.			
Product.cloudinaryVideoTransf ormation	Video Transformation	Field to add product level video transformation.			
Product.isCloudinaryOverride	Override Category Level Transformations	Flag to override category level transformation.			

1. Log into the Backoffice, navigate to Catalog > Products and search for the required product to apply the transformation on. Ensure that you select the staged catalog version of the product.

Cloudinary

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ъ Kevwords	100124	Panorama Pants Women		Apparel Product C	atalog : Online
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2. Navigate to the "Multimedia" tab and scroll to the "Cloudinary Media" section. In the custom transformation field, provide the required image and/or video transformation. The transformation strings can be comma separated for applying multiple transformations.

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	Insert below the Spinset Tag for this Product. Make sure it matches the tag assigned to the Spinset Assets uploaded to Cloudinary.	
	Spinset Tag	

3. To override the category level transformation applied, set the override category level transformation to "true".

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S Product Tax Classes	True False N/A	1				
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No queries	Enter the tag to use for the spin set. This tag should have been assigned to each of the assets required for the spin set in Cloudinar	ý.				

4. Save the changes and click the sync icon at the top of the editor area to synchronize the changes from the staged to the online version of the catalog.

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Apply Media Level Transformations

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
Mediacontainer.conversionGr oup	Conversion Group	Add the required conversion group consisting of media formats .
ConversionGroup.supported MediaFormats	ConversionGroup.supported MediaFormats	Media formats with different transformations.
MediaFormat.transformation	MediaFormat.transformation	Specific transformation string.

1. Log into Backoffice, navigate to Catalog > Products and search for the required product to apply the transformation on. Ensure that you select the staged catalog version of the product for which you want to apply the transformation on.

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💕 Product Variant Types	Article Number Identifier	Status Catalog version Apparel Product Catalog : Staged
👪 Units	 100124 Panorama Pants Women 	Apparel Product Catalog : Online
SAVED QUERIES	✓ 1 100124_beet_red Panorama Pants Women beet red	Apparel Product Catalog : Staged
No queries	Image: marked state Panorama Pants Women beet red Image: marked state Image: marked state Image: marked state Image: marked state	Apparel Product Catalog : Online Apparel Product Catalog : Staged
	No items selected	Appearel Dreduct Catalog + Opling
	No items selected	•

2. Navigate to the "Multimedia" tab and in the gallery images field select the media container for which you want to apply the asset transformation.

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Gallery Images						
[300020294_1] - Apparel Product Catalog : Staged						
CLOUDINARY MEDIA					*	
Image Transformation String Video Transformation String						
Override category level transformations						
True False N/A						
	Shade Accessories Spy Omega Lens persimmon [300020294] - Apparel Product Catalog Image Comparison PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIAN Gallery Images [300020294_1] - Apparel Product Catalog : Staged Image Transformation String Video Transformation String Override category level transformations	Shade Accessories Spy Omega Lens persimmon [300020294] - Apparel Product Catalog : Stage Image Compared Product Catalog : Staged [300020294_1] - Apparel Product Catalog : Staged	Shade Accessories Spy Omega Lens persimmon [300020294] - Apparel Product Catalog : Staged Image Comparing Image Transformation String Override category level transformations	Shade Accessories Spy Omega Lens persimmon [300020294] - Apparel Product Catalog : Staged Image Comparing Compared Product Catalog : Staged Gallery Images [300020294_1] - Apparel Product Catalog : Staged Image Transformation String Under Transformation String Override category level transformations	Shade Accessories Spy Omega Lens persimmon [300020294] - Apparel Product Catalog : Staged Image Control PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIBUTES Gallery Images [300020294_1] - Apparel Product Catalog : Staged Image Transformation String Video Transformation String Override category level transformations	Shade Accessories Spy Omega Lens persimmon [300020294] - Apparel Product Catalog : Staged Image Control PROPERTIES ATTRIBUTES BUNDLING Callery Images [300020294_1] - Apparel Product Catalog : Staged Image Transformation String Video Transformation String Override category level transformations

3. Open the media container and check if you have any conversion groups attached in the "Conversion Group" field. Open any existing conversion group if present in the conversion group field and attach it to the conversion group field.

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		+ Create new Media Format	-		
					
			•••		

4. If not present, create a conversion group by clicking the "Conversion Group" field and adding the required conversion group supported media formats.

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No quer	Conversion Group Create new Conversion Group	•	 /515Wx515H/300020294_1.jpg - Apparel Product Catalog : /300Wx300H/300020294_1 ing - Apparel Product Catalog : 	-		

5. If you need new media formats, create new media formats and add the required transformation and save your changes.

Filter tree (Alt+Down	Edit item 300Wx300H [300Wx300H]	×	
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▶ System			65Wx65H [65Wx65H]	
 Catalog 	+ Create new Output Document •		1200Wx1200H [1200Wx1200H]	
ii\ Catalogs			96Wx96H [96Wx96H]	
Catalog Versions Categories	Comments	External ID	300Wx300H [300Wx300H]	
Products	MediaFormat.inputMediaFormat	MediaFormat.mediaMimeType		
SAVED QUERIES	Is blocked for processing	MediaFormat.transformation		
No quei	True False N/A	w_300,h_300		
_	Madia Format Improfession Company			

- 6. Once the transformation is added to the media format and saved along with the corresponding conversion group, the media container should be saved along with the product.
- 7. To override the product level transformation applied, navigate to the media entity which you want to override and set Override Transformation to "true".

er tree (Alt+Down	Edit item /1200Wx1200H/30002029	4_1.jpg - Apparel Product Catalog : Staged	i ×	
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RIES	Format	Version	/1200Wx1200H/300020294_1.jpg	
LINILO	jpg	v1613833576		



8. Save the changes and click the sync icon at the top of the editor area to synchronize the changes from the staged to the online version of the catalog.

Transformation Cronjob

The transformation cronjob takes care of generating different formats of the asset based on the conversion groups. Once a conversion group is attached to a specific media container with all the supported media formats with specific transformations and the transformation cronjob is run, the job automatically generates all the different transformations for the product. The job is scheduled to run every 30 minutes automatically in the background and can be rescheduled to a different interval or can be run manually.

Note - The SAP media container should have a single large master image uploaded to Cloudinary in a media that serves as a master media for all the transformations for that image. This master media should not have any media formats attached. Also every SAP media format needs to have the "transformation" field set with a value for the transformations.

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
CloudinaryMediaTransformationj ob.catalogVersions	CloudinaryMediaTransforma tionjob.catalogVersions	Add the required catalog for which the transformations need to be generated. Select the staged catalog version.

To manually run the transformation cronjob:

- 1. Log into Backoffice, navigate to System > Background Processes > Cronjobs and search for **cloudinarytransformationcronjob**.
- 2. Navigate to the *Administration* tab and search for catalog versions field and assign the product catalog (staged catalog version) for which the transformation cronjob would generate the transformations.

Cloudinary

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Responsive Breakpoints

Cloudinary's responsive breakpoints functionality provides you with a solution for dynamically generating and delivering the most suitable image size for the screen/device in use. Each breakpoint generated, according to the configuration set, is considered a transformation, and included in the delivery of the asset from Cloudinary.

Responsive breakpoints are applied via the Cloudinary configuration wherein the user can configure custom breakpoints to be applied on images. By default, Cloudinary responsive breakpoints are enabled. Information on responsive images can be found in the Cloudinary Responsive images guide.

Follow these steps to configure responsive breakpoints:

1. Log into Backoffice, navigate to Cloudinary > CloudinaryConfiguration and select the Cloudinary configuration.

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 For the selected Cloudinary configuration in the editor view, navigate to the "Image Breakpoints" tab and from "IMAGE - BREAKPOINTS" section, set the values for Image Width Limit Max (the maximum permitted image width), Image Width Limit Min (the



minimum permitted image width), and the Step Size (the number of pixels between image sizes used for the breakpoints).

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3. Ensure that the responsive breakpoints flag is set to true and save your changes.

Upload Presets

Cloudinary <u>upload presets</u> enable you to centrally define a set of asset upload options instead of specifying them in each upload call. You can specify the name of an upload preset in the "Cloudinary Configuration" section in SAP Backoffice and all asset uploads will use that upload preset to upload assets to Cloudinary.

Users can set their presets as **signed** or **unsigned**. Unsigned presets can be used with unsigned upload calls, such as uploading directly from the browser, in the upload widget or for Auto Upload settings.



Create Upload Preset

To create a new upload preset in Cloudinary:

1. Log in to your Cloudinary account and then go to the Settings page.

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2. On the Settings page, navigate to the Upload tab.

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Account Upload	Security	y User	S	
Automatic backup:	Disabled	-		
	-		hat every uploaded file is also copied to a secondary write-protected	
	location, whil	le keeping multiple rev	isions per file. Storage usage is increased when backup is enabled.	
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Auto-create folders:	Enabled	•		
ato create rotaers.			s are automatically created to match the folders of uploaded media.	
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nvalidate versioned URLs:	Disabled	-		
		you use URLs with the upload/v1634657871/s	version component, e.g. https://res.cloudinary.com/portaltech-	
	repty/mage/	aptoud/1105405/07175	unbreib?	
Auto upload mapping:	Folder:	media	→	
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		oudinary.com/portalte .1/magento/media/sar	ch-reply/image/upload/media/sample.jpg → nple.jpg	
	Add another	mapping		,
		_	P, HTTPS, or whitelisted private storage bucket URL for auto-uploading.	ŀ
			ry URL, Cloudinary checks whether the specified file already exists in that /es the asset from the parallel path under the remote URL and stores it in	
	the Cloudinar	,	res ure asset from the parallel path under the femole OKL and Stores it in	
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3. Navigate to the "Upload Presets" section and click on the "Add Upload Preset" link and create a new upload preset.

ep CMYK in derived images:			MYK no attempt will be made to convert Ig is possibly required if one targets prin		RGB one	
	Otherwise the more fi	ne-grained cs_keep_c	myk (transformation flag) is recommend	ed.		
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	my_preset1	Unsigned	Tags: remote Allowed formats: jpg,png	Edit Duplicate	ш	
	qhrqbvmo	Unsigned	Use filename or externally defined Public ID: false	Edit <u>Duplicate</u>	Ξ.	
	my_preset	Signed	Overwrite: true Unique filename: true Delivery type: upload	Edit Duplicate	Ξ	
	ml_default	Signed	Overwrite: true Use filename or externally defined Public ID: true Unique filename: true Delivery type: upload	<u>Edit Duplicate</u>	血	
	Add upload pres	<u>et</u>				
	parameters during th	ne upload request itse	fault behavior for your uploads, instead If. Parameters can include tags, incomin re. Upload presets have precedence ove	g or on-demand		

Set Upload Preset in SAP Backoffice

To set the upload preset in SAP BackOffice:

- 1. Log into Backoffice, navigate to Cloudinary > CloudinaryConfiguration, select your Cloudinary configuration.
- 2. On the "Cloudinary Configuration" tab, open the "Upload Preset" section and then set the preset value in the attribute "Select upload preset".

Cloudinary

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Personalization	True False		
- Cloudinary	Connected to Cloudinary Free Classic Credits : N/A , Storage Usage : 5.15 GB (N/A) , Bandwidth Usage : 9.46 GB (N/A) , Transformation Usage : 5951 (N/A)		
CloudinaryConfiguration			
Entitlements	UPLOAD PRESET		*
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	See the <u>upload presets</u> documentation		*

Note: You can only select the name of an existing upload preset. You cannot create a new upload preset from SAP Backoffice. If no upload preset displays and you want to create a new one, then you need to login to your Cloudinary Account and create it from there, as described above.

Analytics Query Param

Analytics Query Param Appended to Asset URLs

The purpose of the Analytics query param is to track the delivery and transformations of the assets delivered by Cloudinary. On loading Storefront, SAP Commerce adds the query param "?_=AJ" to all assets delivered by Cloudinary. This query param is not stored in the SAP Backoffice.

Note: There is no way to disable this functionality.