SAP COMMERCE CLOUDINARY EXTENSION INTEGRATION

$Functional \ Guide$

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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.

	SAP
Username:	
Password:	
Language:	English
	Login

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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4. Clicking the "+" button opens a wizard to add the configuration details.

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In the Product Catalog Transformation 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.

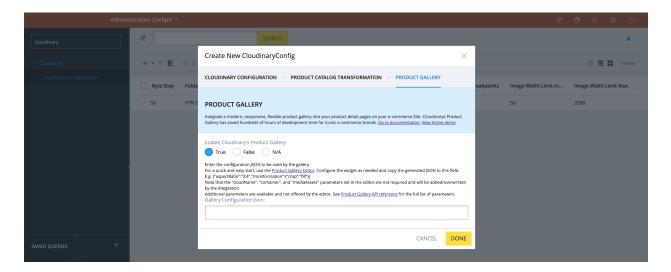
Note - The transformations set here do not apply to the Product Gallery media. Refer to the *Cloudinary Product Gallery* section to learn how to apply transformations to the Product Gallery.

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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.





5. Once the Cloudinary Configuration item is created successfully it is displayed similar to this:

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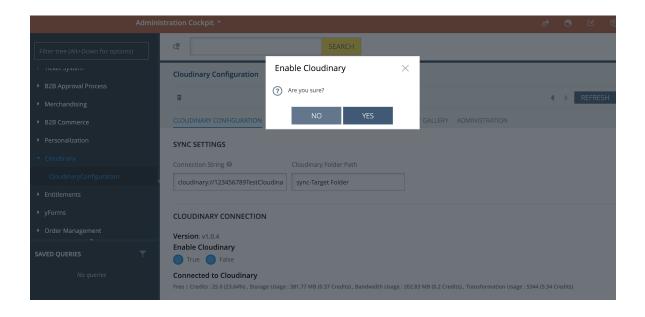
6. You can open the configuration to view the configuration details.

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Order Management	Version: v1.0.4					
SAVED QUERIES	Enable Cloudinary True False					

7. To modify/add any configuration value, update the value, then click the "save" button.

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- 8. To enable/disable the usage of the Cloudinary extension, use the "Enable Cloudinary" switch:
 - a. *False* disables the Cloudinary connection; the status changes to "Not Connected to Cloudinary" and the plan details are not displayed.



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

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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 Coudinary account but no Cloudinary features will be available (for example, no global transformations, Cloudinary breakpoints or Product Gallery).</td></tr><tr><td>cloudinaryImageFormat</td><td>Image Format</td><td>The global image format used for all images. The default value after the extension is installed is "Auto", meaning Cloudinary's algorithms</td></tr></tbody></table>

		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.
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 get	Enable Cloudinary's Product Gallery	This lets you enable/disable the Product Gallery.
globalCloudinaryImageTran sformation	Custom Transformation	A global transformation to be applied to images.
globalCloudinaryVideoTrans formation	Custom Transformation	A global transformation to be applied to videos.

cloudinaryGalleryConfigJso nString	Gallery Json Configurations	Use this to provide configuration JSON for the Product Gallery.
enableOptimizeImage	Optimize Images	A flag to enable image optimization. When <i>true</i> , the image format and quality will be set to "Auto" and any manual configuration for image format or quality will be ignored. If <i>false</i> , the manual configuration for image format and quality will be applied.
enableOptimizeVideo	Optimize Videos	A flag to enable video optimization. When <i>true</i> , the video format and quality will be set to "Auto" and any manual configuration for image format or quality will be ignored. If <i>false</i> , the manual configuration for video format and quality will be applied.
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> .
cloudinaryWidth	Video Width	The global video width for all video components.
cloudinaryHeight	Video Height	The global video height for all video components.

* 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 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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- cloudinaryMediaUploadSyncCronjob SEARCH _ ☆ cronjob + • 🖬 🖬 🏥 📃 📜 👪 1 items Code Job definition Current stat... Last result Timetable cloudinaryMediaUploadSyncCronjob cloudinaryMediaUploadSyncJob FINISHED SUCCESS Daily at 00:00:00 cloudinaryMediaUploadSyncJob : cloudinaryMediaUploadSyncCronjob - FINISHED - SUCCESS **≙** ≽ ∎ C C ∉* REFRESH SAVE LOG TASK RUN AS TIME SCHEDULE SYSTEM RECOVERY ADMINISTRATION ESSENTIAL \$ SAVED QUERIES Code Current status Job definition Last result ▼ cloudinaryMediaUploadSyncJob FINISHED • cloudinaryMediaUploadSyncCronjob SUCCESS Timetable Last start time Enabled 🙆 Last end time Feb 24, 2021 12:00:00 AM 🛅 🗌 True 🔵 False Daily at 00:00:00 Ē Feb 24, 2021 12:00:03 AM
- 4. Open the editor area of the "cloudinaryMediaUploadSyncCronjob" cronjob.

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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6. Click on the Sync icon to trigger the cronjob.

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

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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*:

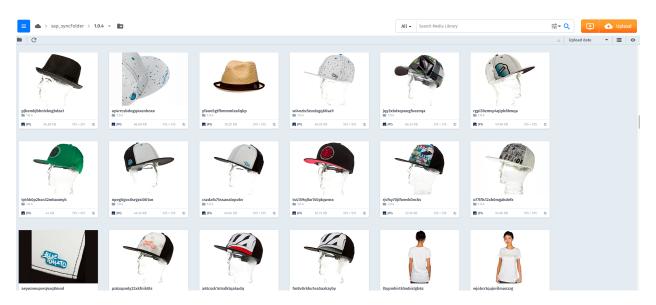
- 1. Log into SAP Backoffice as an admin user.
- 2. Search for *media* in the search box in the left-hand navigation tree and expand the *Multimedia* node. Click on Media.
- Click the "+" button to open the Create New Media wizard. Fill in the unique identifier field and select the catalog version (note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

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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.

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



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- 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.

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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.

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Media	C testProductMedia SEARCH	۵ «
	+ • = ① 参 箔 匠 • 巴	📃 🏗 👪 1 items
	Identifier Mime type Folder Sync stat Catalog version	
🛅 Media Folders	identiner mine type Folder Sync stat Catalog version	
🔡 Media Containers	队 💺 testProductMedia image/jpeg root - null Apparel Product Catalog : Staged	
🔠 Media Formats		
🔛 Media Contexts		
	0 ITEMS SELECTED	
	testProductMedia - Apparel Product Catalog : Staged	≅ >
	≅ ¢	REFRESH SAVE
	E C)	
	GENERAL METADATA SECURITY ADMINISTRATION	REFRESH SAVE
SAVED QUERIES	GENERAL METADATA SECURITY ADMINISTRATION ESSENTIAL	REFRESH SAVE
	GENERAL METADATA SECURITY ADMINISTRATION ESSENTIAL Identifier Catalog version	REFRESH SAVE
SAVED QUERIES	GENERAL METADATA SECURITY ADMINISTRATION ESSENTIAL Identifier Catalog version	REFRESH SAVE

 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.

Admin	istration Cockpit 🝷			ප් 🗿 🗹 🔞 එ
Media	C testProductMedia	SEARCH		
	testProductMedia - Apparel Product Catalog	: Staged		≜ ⇒
	ΰ (2)			REFRESH SAVE
🛅 Media Folders	GENERAL METADATA SECURITY ADMINISTRAT	TION		
🔠 Media Containers				
📰 Media Formats	PROPERTIES			*
🔠 Media Contexts	URL	Mime type	Real filename	Media format
	https://res.cloudinary.com/dfxfvh43r/image/uploa	image/jpeg		
	Media container	Folder	Supercategories	
		root - null		
	CLOUDINARY MEDIA CONTENT			×
	CLOUDINARY MEDIA ATTRIBUTES			*
	Cloudinary Image URL	Resource Type	Туре	Public Id
SAVED QUERIES	https://res.cloudinary.com/dfxfvh43r/image/uploa	image	upload	PTR-DEV sync 02/file_fytolb
	Transformation	Override Transformation	Format	Version
		🗌 🔿 True 🔵 False 🔵 N/A	jpg	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	The version of the asset in Cloudinary.
	orodaniary.

- 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.

۸	Iministration Cockpit *						86	0	۲	0	ወ
Media	C testProductMedia	C testProductMedia SEARCH								6	×
✓ Multimedia	testProductMedia - Apparel Product Catal	testProductMedia - Apparel Product Catalog : Staged 🔒 😸							k S		
👹 Media	# (\$)								REFRESH	H SA	
🛅 Media Folders	GENERAL METADATA SECURITY ADMINIST	TRATION	4								
🔠 Media Containers	URL	N	Mime type	Real filename		Media format					
🔚 Media Formats	https://res.cloudinary.com/dfxfvh43r/image/upl	ploa	image/jpeg								
🔛 Media Contexts	Media container	F	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	stration Cockpit 🝷				٤	• O L	K @ O	
Product	C Product	Q Global Operator:	And 👻 🔽 Include subtypes	SEARCH 🗎			•	
	Attribute	Comparator	Value	Sort Order				
Products	Article Number	Contains 👻					×	
Product Variant Types	Identifier	Contains 👻	en 🔻	\odot			×	
 Configuration for Complex Products 				\odot				
 Price Settings 	Catalog version	Equals 👻	Apparel Product Catalog : Staged				×	
 Prices Product Price Classes 	Product variants type	Equals -					×	
▼ Taxes	Alternative ID 👻	Equals 👻					+	
Product Tax Classes								
 Discounts 	+ • © © ∲ š≡	F - F			≡ च װ →	1 / 39	1936 items	
Product Discount Classes	Article Numb	Identifier			Status	Catalog versio	on	
▼ Marketing	✓	Shade Accessories Spy O	mega Lens persimmon			Apparel Produ	uct Catalog : Stage	d
See Product References	300441142	Cap Blue Tomato BT Snov	w Trucker Cap black			Apparel Produ	uct Catalog : Stage	d

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

Admin	stration Cockpit 🔻				ef 💿 🗹 🥸	9 U
Product	Q Product Q Global Oper	ator: And 🔹 🔽 Include subtypes	SEARCH 😫			₽ >
	Snowboard Ski Tool Toko Waxremover HC3	500ml [45572] - Apparel Product Catalog : Sta	ged			≜ ⊗
	in @ ♥				REFRESH	SAVE
Product Variant Types	PROPERTIES ATTRIBUTES BUNDLING CATEG	DRY SYSTEM PRICES MULTIMEDIA VARIANTS	EXTENDED ATTRIBUTES REVIEWS STOCI	K ADMINIS'	FRATION	
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	ml 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 Prod	uct
	Others	Thumbnails	Gallery Images			
	1/1200Wx1200H/45572_1.jpg - Apparel Produc	/96Wx96H/45572_1.jpg - Apparel Product Cat	[45572_1] - Apparel Product Catalog : S	Staged		
	/515Wx515H/45572_1.jpg - Apparel Product		[a4d28bac-678e-492a-904d-79a500984	:824] - Ap		

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

Admin	istration Cockpit *		රු 🕲 🗹 🔞 වේ
Product		SEARCH	₽ \$
	Snowboard Ski Tool Toko Waxremover HC3 500ml [45572] - Apparel Product Catalog : Stag	ged	≜ ⊗
	(1) 创 前		REFRESH SAVE
💕 Product Variant Types	PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS	EXTENDED ATTRIBUTES REVIEWS STOCK ADMINIS	TRATION
Configuration for Complex Products			
 Price Settings 	IMAGES		*
▼ Prices	Image Thumbnail		
Product Price Classes	1/300Wx300H/45572_1.jpg - Apparel Product	[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		[a4d28bac-678e-492a-904d-79a50098c824] - Apparel Product Catalog : Staged	/300Wx300H/45572_1.jpg - Apparel Product
 Marketing 		[7c871231-6be8-4e2d-aee2-99e1b20398d6] -	
🎭 Product References	Others Thumbnails	Apparel Product Catalog : Online	
1* Product reviews	1/1200Wx1200H/45572_1.jpg - Apparel Produc	+ Create new Media Container 👻	
SAVED QUERIES	/515Wx515H/45572_1.jpg - Apparel Product	• 1 /921 🕨 🕅	
	1 /300Wx300H/45572_1.jpg - Apparel Product		·
	/96Wx96H/45572_1.jpg - Apparel Product Cat		
	/65Wx65H/45572_1.jpg - Apparel Product Cat		

Admin	istration Cockpit 🔻					2ª O 🗹 🕸 U
	ି Product	Q Global Opera	tor: And 🔹 🔽 Include subtypes	SEARCH B		â ¥
	Snowboard Ski Tool To	Create New Media	Container	×		≜ ⇒
	i @ ¢	MANDATORY VALUES				REFRESH SAVE
	PROPERTIES ATTRIBUTI	Catalog version:			CK ADMINISTRA	
		Apparel Product Catalo	g : Staged			
	IMAGES	Name:		0		*
	Image	testMediaContainer				
	/300Wx300H/45572_1	Qualifier:				
		1200WX1200H_TestPro	ductMedia			
	ADDITIONAL MULTIM	Time created:				*
	Specifications				N	
						/300Wx300H/45572_1.jpg - Apparel Product
				CANCEL DONE		
			Thumbnails	Gallery Images		
	/1200Wx1200H/45572	2_1.jpg - Apparel Produc	/96Wx96H/45572_1.jpg - Apparel Product Cat	[45572_1] - Apparel Product Catalog	g : Staged	
	/515Wx515H/45572_1	.jpg - Apparel Product		[a4d28bac-678e-492a-904d-79a500	98c824] - Ap	
	1 /300Wx300H/45572_1	.jpg - Apparel Product				
	# /96Wx96H/45572_1.jp	g - Apparel Product Cat				
	r /65Wx65H/45572_1.jp	g - Apparel Product Cat				

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

Admini								
Product	C Product	Q Global Operator: And	Include subtypes	SEARCH	в	-		≙ ≽
✓ Catalog	Snowboard	Edit item testMediaContainer [1200 Staged	0WX1200H_TestProductMedia]	- Apparel F	Product Catalog : $ imes$			≙ ⊗
Products	i 🖻 🗘	۵.	REFRESH		[45572_1] - Apparel Product Catal		REFRESH S	
💦 Product Variant Types	PROPERTIES	COMMONS METADATA ADMINISTRATION			[a4d28bac-678e-492a-904d-79a5	NISTRATION		
 Configuration for Complex Products 					testMediaContainer [1200WX120			
▼ Price Settings	IMAGES	ESSENTIAL		*				~
✓ Prices	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		*		** 1 /300Wx300H/4557	2_1.jpg - Apparel Product	
▼ Marketing		Name	Medias					
🤤 Product References	Others	testMediaContainer						
<u> <u> </u> [∗] Product reviews </u>	r /1200Wx1		CONVERT MISSING MEDIAS					
SAVED QUERIES	/515Wx51							
No queries	# /300Wx30							
	# /96Wx96H							
	# /65Wx65H/	45572_1.jpg - Apparel Product Cat						

Admini	stration Cockpit	×				2 ⁶ O 🗹 🕲 U
Product	C Product	Q Global Operator: And	Include subtypes SEARC			≗ ¥
▼ Catalog	Snowboard	Edit item testMediaContainer [1200W Staged	 DestVideo - Apparel UK Content Catalog : Online 	rel P	Product Catalog : $ imes$	≙ ⊗
Products	∎ @ ¢	ū	testVideo - Apparel UK Content Catalog : Staged		[45572_1] - Apparel Product Catal	REFRESH SAVE
📲 Product Variant Types	PROPERTIES	COMMONS METADATA ADMINISTRATION		F.	[a4d28bac-678e-492a-904d-79a5	
 Configuration for Complex Products Price Settings 		ESSENTIAL	■ TestMedia - Apparel UK Content Catalog	*	testMediaContainer [1200WX120	
 Price settings Prices 	IMAGES	Qualifier	: Staged testcnamemedia_96Wx96H - Apparel	Î		*
🕼 Product Price Classes	1/300Wx30	1200WX1200H_TestProductMedia	Product Catalog : Online + Create new Media	-		
▼ Taxes		Conversion Group @		-		
 Product Tax Classes Discounts 	ADDITIONAL					*
Product Discount Classes	Specifications	PROPERTIES		*		Normals I /300Wx300H/45572_1.jpg - Apparel Product
 Marketing 		Name 💿	Medias			
💱 Product References	Others	testMediaContainer	test			
g* Product reviews	# /1200Wx1					
SAVED QUERIES T	1 /515Wx51		DELETE CONVERTED MEDIAS			
No queries	1/96Wx96H					•
	/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:

Admin	istration Cockpit 🝷					8	• • • •	9 () 9
cronjob	C Product	ConversionGroupModel (8796270723473@3)	Include subtypes SEARC					≜ ≈
▼ System	Snowboard	S ConversionGroupModel (8796270690705@3)	WX1200H_TestProductMedia] - App	arel P	roduct Catalog : X			≙ ⊗
 ▼ Background Processes (Ĉ) Cronjobs 	ii @ ¢	ConversionGroupModel (8796270657937@3)	REFRESH SAV		[45572_1] - Apparel Product Catal		REFRESH	SAVE
O cronjobs	PROPERTIES	ConversionGroupModel (8796270625169@3)			[a4d28bac-678e-492a-904d-79a5 testMediaContainer [1200WX120			
	IMAGES	ConversionGroupModel (8796270592401@3)		*				*
	Image /300Wx30	+ Create new Conversion Group	Catalog version Apparel Product Catalog : Staged					
		≪	Conversion Status					
	ADDITIONAL Specifications		UNCONVERTED					*
	specifications	PROPERTIES		*			572_1.jpg - Apparel Pro	duct
			Medias					
	Others	testMediaContainer	F testProductMedia - Apparel Product Ca					
SAVED QUERIES	# /515Wx51		CONVERT MISSING MEDIA					
No queries	■ /300Wx30		DELETE CONVERTED MEDIAS					
		572_1.jpg - Apparel Product Cat						

Admin	listration Cockpit. *	8 O Y Q U
cronjob	c2 Product Q. Global Operator: And ▼ ✓ Include subtypes SEARCH EI	A 8
▼ System	Edit item ConversionGroupModel (8796289663377@0) X	A U
 Background Processes 	REFRESH SAVE	REFRESH SAVE
👌 CronJobs	PROPERTIES COMMONS ADMINISTRATION	ISTRATION
	IMAGES ESSENTIAL *	*
	Identifier t /300W/dt testConversionGroup	
	ADDITIONA PROPERTIES *	\$
	Specification	Normals
	30Wx30H [30Wx30H]	- 1/300Wx300H/45572_1.jpg - Apparel Product
	others tablet [tablet]	
÷	65Wx65H [65Wx65H]	
SAVED QUERIES	r /515Wk51	
No queries	1/300Wx30	
	I //3000/300 -+ Create new Media Format - I //650x/650/45572_1_jog - 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.

Ad	ministration Cockpit 🔻			ef 🗿 🗹 🧐	ው
cronjob	Cronjob Q Gla	al Operator: And 👻 Include subtyp	es SEARCH		≜ ☆
	Attribute Compare	tor Value	Sort Order		
	Code Starts V	ith 👻 cloudinary	\odot		×
	Job definition Equals	•			×
	Current status Equals	•	 ✓ ✓ ✓ 		×
	Last result Equals	•	 ▲ ● 		×
	Alternative Data Source 🝷 Equals	•			+
	cloudinaryMediaTransformationJob	cloudinaryMediaTransformationCronjob - FIN	ISHED - SUCCESS		≗ ≽
	i 🕐 🖑 🖻			♦ ► REFRESH S	
	LOG TASK RUN AS TIME SCHEDULE	SYSTEM RECOVERY ADMINISTRATION			
	ESSENTIAL				*
SAVED QUERIES	Code	Current status	Job definition	Last result	
SAVED QUERIES	cloudinaryMediaTransformationCronjob	FINISHED	 cloudinaryMediaTransformationJob 	SUCCESS	•
		Loop at a start Marca	Enabled @	Last end time	
	Timetable	Last start time	Ellabled 🐨	case end enne	

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

Admir	nistration Cockpit 🝷							
cronjob	ද Cronjob Q Global	Operat	or: And Include subtypes	SE	ARCH 🗎			• ×
😚 Home	cloudinaryMediaTransformationJob : clo	oudina	ryMediaTransformationCronjob - FINISHEI) - SI	JCCESS			≅ ⊗
📥 Inbox	₩ C C 🛱						REFRESH SAM	/E
▼ System	LOG TASK RUN AS TIME SCHEDULE SY	YSTEM	RECOVERY ADMINISTRATION					
► OAuth								
CORS Filter	UNBOUND							*
 Advanced Configuration 	ActiveCronJobHistory		Documents		Assigned Cockpit Item Templates		CloudinaryMediaTransformationJob.catalogVersic	ons
▶ Tools			+ Create new Output Document	•		••	Apparel Product Catalog : Staged	
Output Documents								Ī
 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.

Admir	istration Cockpit * දු ⁶ ලී 🗹 හු ල්
Product	Q Product Q Global Operator: And → ✓ Include subtypes SEARCH ▲
	Snowboard Ski Tool Toko Waxremover HC3 500ml [45572] - Apparel Product Catalog : Staged 🔒 👳
	te @ C
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 /96Wx36H/45572_1.jpg - Apparel Product Cat
▼ Taxes	
💕 Product Tax Classes	ADDITIONAL MULTIMEDIA OBJECTS
Discounts	Specifications Details Logos Normals
Product Discount Classes	••• ••• ••• 1/300Wx300H/45572_1.jpg - Apparel Product
 Marketing 	
💱 Product References	Others Thumbnails Gallery Images
1* 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/25572_1jpg - Apparel Product [4428bac-678e-492a-9046-79a50098c824] - Ap
No queries	I /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.

ଙ	SEARCH	
Ū	Create New Product X	
+•≐⇔ @ 4	ESSENTIALS DESCRIPTION CATEGORIZATI MEDIA CLOUDINARY PRODUCT All required , identifiers and , ON , Create media , MEDIA fields descriptions Assign to content Create Cloudinary media categories content	Ξ Έ Η ∢ 1 /14
Article Numb	Article Number:	Status Catalog v
✓ 🖱 300020294		Apparel
- 🚿 300441142	Approval:	Apparel
45572	check •	Apparel
 ✓ → 300047513 	Catalog version:	Apparel
✓		Apparel
		Apparel
 45577 	CANCEL	Apparel
 29533 	Snowboard Ski Tool Toko Ergo Multi Guide yellow	Apparel
alian	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.

Adminis	tration Cockpit 🔻			8 ⁶ 🔿 🗹 🔞 U
product	৫			≜ ⊗
✓ Catalog	O	Create New Product	×	
Products Product Variant Types	+•=0000	ESSENTIALS DESCRIPTION CATEGORIZATI MEDIA All required identifiers and ON Create media fields descriptions Assign to content categories	CLOUDINARY PRODUCT , MEDIA Create Cloudinary media content	■ ■ ■ ● 1 /143 ● 7148 items
Configuration for Complex Products	Article Numb	Select Asset from Cloudinary		Status Catalog version
▼ Price Settings	 300020294 			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	a 45576			Apparel Product Catalog : Staged
▼ Discounts	·			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	 Ø 300013358 	Snowboard Ski Tool Red FBI 6		Apparel Product Catalog : Staged
<u> </u>	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.

Adminis	stration Cockpit 🔻			2 ⁶ 🔿 🗹 🔞 U
product	¢.	SEARCH		A &
 Catalog 	G	Create New Product	>	
Products Product Variant Types	+ • 🗈 🗘 🖉 6	ESSENTIALS DESCRIPTION CATEGORIZATI All required identifiers and ON fields descriptions Assign to categories	MEDIA CLOUDINARY PRODUCT , Create media , MEDIA content Create Cloudinary media content	Ξ Ξ Ξ Ξ (1 /143 → 7148) items
 Configuration for Complex Products 	Article Numb	Select Asset from Cloudinary		Status Catalog version
 Price Settings 	✓	45_hpcrfq.jpg		Apparel Product Catalog : Staged
	300441142	SELECT ASSET		Apparel Product Catalog : Staged
🕬 Product Price Classes	45572			Apparel Product Catalog : Staged
▼ Taxes	 300047513 			Apparel Product Catalog : Staged
💕 Product Tax Classes	✓			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	 ✓ ⋬ 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.

Adminis	tration Cockpit 🔻	ප්	0	\mathbf{r}	® ()	
Filter tree (Alt+Down for options)	৫ SEARCH				<u>a</u> :	*
י וונאכו שאונווו	Cloudinary Configuration				<u> </u>	*
 B2B Approval Process 				D550501		
 Merchandising 	۵	•		REFRESH	H SAVE	
B2B Commerce	CLOUDINARY CONFIGURATION PRODUCT CATALOG TRANSFORMATION PRODUCT GALLERY ADMINISTRATION					
Personalization	SYNC SETTINGS				~	2
▼ Cloudinary	Connection String 🕘 Cloudinary Folder Path					
CloudinaryConfiguration	cloudinary://123456TEST-cloudinaryL syncTarget-folder					
Entitlements						
▶ yForms	CLOUDINARY CONNECTION				~	2
Order Management	Version: v1.0.4					
SAVED QUERIES	Enable Cloudinary True False					

3. In the editor view, go to the "Product Gallery" Tab and set "Enable Cloudinary's Product Gallery" to *true*.

Admi	nistration Cockpit *	2ª O 🗹 🧐 U
clou	৫ SEARCH	≗ ∻
✓ Cloudinary	Cloudinary Configuration	ê V
CloudinaryConfiguration	8	REFRESH SAVE
	CLOUDINARY CONFIGURATION PRODUCT CATALOG TRANSFORMATION	
	PRODUCT GALLERY	\$
	Integrate a modern, responsive, flexible product gallery into your product detail pages on your e-commerce Site. Cloudinary's Product Gallery has saved hundreds of hours of development time for iconic e-commerce brands. Go to documentation. View Active demo	
	PRODUCT GALLERY SETTINGS	*
	Enable Cloudinary's Product Gallery	
	True False NVA	
	Enter the configuration JSON to be used by the gallery.	*
SAVED QUERIES	For a quick and easy start, use the <u>Product Callery fallery</u> . Configure the widget as needed and copy the generated JSON to this field. E.g. ("aspectRatio":"3:4", "transformation":"Croop":"fill")) Note that the "CloudName", "container", and "medialsests" parameters set in the editor are not required and will be added/overwritten 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.	
		*
	Gallery Configuration Json	
	t "displayProps": t "mode": "expanded"	

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>.

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 Ticket System 	Integrate a modern, responsive, fieldible product gallery into your product detail pages on your e-commerce Site. Cloudiany's Product Gallery has saved hundreds of hours of development time for iconic e-commerce brands. Go to documentation. View Active demo					
 B2B Approval Process 						
Merchandising	PRODUCT GALLERY SETTINGS					*
B2B Commerce	Enable Cloudinary's Product Gallery					
 Personalization 	True False N/A					
✓ Cloudinary						\$
CloudinaryConfiguration						~
Entitlements	Enter the configuration JSON to be used by the gallery. 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. ("assectivatio":34", "transformation";("crop":"III").					
▶ yForms	Construction of the second					
SAVED QUERIES						*
No queries	Gallery Configuration Json { "displayProps": { "mode": "expanded",					

- 5. Once the JSON change is saved, the changes are instantly applied and visible in your storefront.
- 6. 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 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	ও SEARCH	₽ \$
	Snowboard Ski Tool Toko Ergo Multi Guide yellow [29533] - Apparel Product Catalog : Staged	≞ ⊗
	1 🖗 🗘 🔹 REFRESH	SAVE
💕 Product Variant Types	PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIBUTES REVIEWS STOCK	ADMINIS 🕨
 Configuration for Complex Products 		
▼ Price Settings	CLOUDINARY MEDIA	*
 Prices 		~
💕 Product Price Classes	Image Transformation String Video Transformation String Override Category Level Transformatio	
▼ Taxes	True Faise 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 Cloudinary.	
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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Website	Cloudinary Video Component			≜ ⊗
Page Type	ŵ			♦ REFRESH SAVE
Page Template				i i i i i i i i i i i i i i i i i i i
Content Slot Relation for a Page Template	PROPERTIES RESTRICTIONS CONTENT SLOTS	ADMINISTRATION		
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Content Slot Relation for a Page		+ Create new Output Document 🔹		Apparel UK Content Catalog : Staged
Component				
Component Type Group	Video	Comments	Component Container	Name
Simple CMS Action	🗅 testVideo - Apparel UK Content Catalog : Stag			Cloudinary Video Component
Component Container	Is restricted	Is blocked for processing	Style Classes Ø	Video Transformation
Restriction Type	🔵 True 🛑 False	🔵 True 🛑 False 🚫 N/A		
	ID			
SAVED QUERIES	CloudinaryVideoComponent			

5. Add a transformation in JSON format in the *Video Transformation* field, e.g.: { "mp4": { "width": 410 , effect: "reverse"} }

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clo	Cloudinary Video	Q Global Operator: And	Include subtypes	SEARCH B	۵ 🛠	
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Раде Туре	+ ▼ 1 ■ ● 約 三 〒 # 4 items					
Page Template	D	Name	Catalog Version	Visib		
Content Slot Relation for a Page Template	 CloudinaryVideoComponent 	Cloudinary Video Component	Apparel UK Content Catalog : Staged	true		
Page	 CloudinaryVideoComponent 	Cloudinary Video Component	Apparel UK Content Catalog : Online	true		
Content Slot	√ 104	Cloudinary Video	Apparel Product Catalog : Staged	true		
Content Slot Relation for a Page	Cloudinary Video Component					
Component	a refresh swe					
Component Type Group						
Simple CMS Action	PROPERTIES RESTRICTIONS CONTENT SLOTS ADMINISTRATION					
Component Container	Is restricted		ed for processing	Style Classes 🛛	Video Transformation	
SAVED QUERIES	True False	U Ind	e 🛑 False 🔵 N/A		{ "mp4": { "width": 410 , effect: "reverse"} }	
No queries	CloudinaryVideoComponent					

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

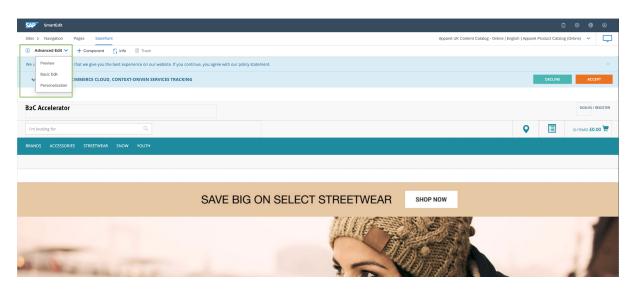
Place the Cloudinary Video Component

To place the Cloudinary Video component in a specific page:

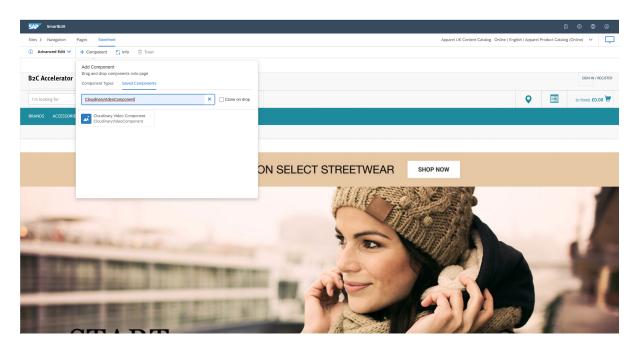
- 1. Log into Smartedit.
- 2. Select your site in the drop down and click, for example, on the STAGED "Homepage" link (shown below using the sample Apparel UK Content Catalog).

SAP SmartEdit		ē @ @ @
	Your Site Apparent Site UK These are the catalogs that are related to the selected site	
APPAREL UK CONTENT CATALOG		^
I de factore Construction de la construcción de la	E GE PAGES NAVIGATION MANAGEMENT	Last synced from Staged 12/16/20 5:12 PM
START STARE	D GE PAGES NAVIGATION MANAGEMENT	Last synced 12/16/20 5:12 PM Sync
THE BEST RUN		

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



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

Params	s Authorization Headers (8) Body Pre-rec	uest Script Tests Settings		Cookies Code
Query	Params			
к	EY	VALUE	DESCRIPTION	••• Bulk Edit
C	lient_id	mobile_android		
C	lient_secret	secret		
🖌 g	grant_type	client_credentials		
K	Key	Value	Description	

Body Cookies (1) Headers (15) Test Results	¢	Status: 200 Ok	Time: 287 ms	Size: 703 B	Save Response 🔻
Pretty Raw Preview Visualize JSON 💌 🚍					Q
<pre>1 { 2 "access_token": "8qlAuVEtzPiQwLxkK2crVjY3uB0", 3 "token_type": "bearer", 4 "expires_in": 43199, 5 "scope": "basic openid" 6 }</pre>					

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

- 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	CloudinaryMediaTagUpdateCronjob	SEARCH			≜ ≈
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	 cloudinaryMediaTagUpdateCronjob cloudir 	naryMediaTagUpdateJob FINISHED SUCCESS	Daily at 00:00:00		
	0 ITEMS SELECTED				
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	in (* 5 ≝*			REFRESH	
	LOG TASK RUN AS TIME SCHEDULE SYST	TEM RECOVERY ADMINISTRATION			
.	ESSENTIAL				*
SAVED QUERIES	Code	Current status	Job definition	Last result	
No queries	cloudinaryMediaTagUpdateCronjob	FINISHED -	cloudinaryMediaTagUpdateJob	SUCCESS	-
	Timetable	Last start time	Enabled 📀	Last end time	
	Daily at 00:00:00	Feb 27, 2021 12:00:10 AM	True 🔵 False	Feb 27, 2021 12:06:40 AM	

Cloudinary 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 Transformation" tab.

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· Dzostępiotari roccas	Cloudinary Configuration							≙ ⊗
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 Personalization 	CLOUDINARY CONFIGURATION	PRODUCT CATALOG TRANSFORMATION	PRODUCT GALLERY	ADMINIST	RATIO	N		
▼ Cloudinary	TRANSFORMATIONS							*
CloudinaryConfiguration								
Entitlements								

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".

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- Cloudinary	Image Width Limit min					
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 Entitlements 	IMAGE - TRANSFORMATION					\$
▶ yForms						~
Order Management						
SAVED QUERIES	e_sharpen					

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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CloudinaryConfiguration	Video Format Video Quality					
Entitlements	Auto • Auto					•
 yForms Order Management 	VIDEO - TRANSFORMATION					*
SAVED QUERIES	Video Width Video Height					
No queries	Custom Transformation 🖉					

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.

- 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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Filter tree (Alt+Down for options)	Q Category Q Global Operator: And ▼ Include subtypes SEARCH B	
🕜 Home	Sunglasses [sunglasses] - Apparel Product Catalog : Staged	
📥 Inbox	tt C)	
▶ System	GENERAL CATEGORY STRUCTURE MULTIMEDIA ADMINISTRATION	
▼ Catalog		
iit Catalogs	Thumbnails	
all Catalog Versions		
Categories		
Products	CLOUDINARY MEDIA	
*- · · · · · · ·	Image Transformation String Video Transformation String	
SAVED QUERIES T	e_red:50	
No queries	Override global level transformations	
	🔵 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.

	¢ C	Sync Sunglasses [sunglasses] - Apparel Product .	>	<	lude subtypes	SEARC	B	₽ ≈
	Sunglas	Select a source or target sync job						≗ ⊗
	τ¢	Q					REFRESH	SAVE
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Catalog Catalogs	Thumbn	Apparel Product Catalog : Online sync apparelProductCatalog:Staged->Online	¢	9				
		Apparel Product Catalog : Online 86npjR5bhf	¢	9				
	CLOUD	Apparel Product Catalog : Online 8Q3CgaZiku	¢	9				*
	Image Tr	Apparel Product Catalog : Online Ue6s7ogJlu	¢	9	ormation String			
		Apparel Product Catalog : Online txNUt6qCC7	¢	9				
		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.

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🧯 Products	Article Number	Identifier	Status	Catalog version	
Product Variant Types	Article Number	laentmer	Status	Catalog version	
👩 Units	100124	Panorama Pants Women		Apparel Product Ca	atalog : Staged
া Kevwords	100124	Panorama Pants Women		Apparel Product Ca	atalog : Online
SAVED QUERIES	✓ 1 100124_beet_red	Panorama Pants Women beet red		Apparel Product Ca	atalog : Staged
	✓ // 100124_beet_red	Panorama Pants Women beet red		Apparel Product Ca	atalog : Online

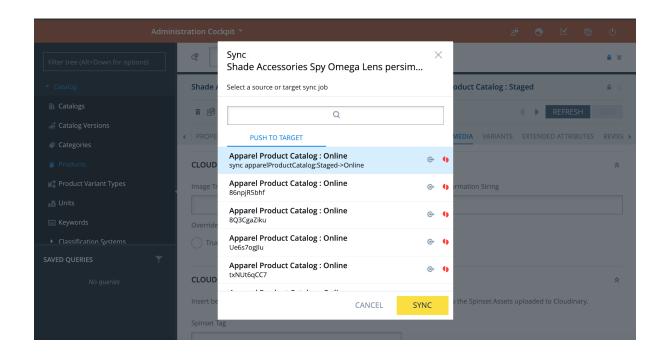
2. Navigate to the "Multimedia" tab and scroll to the "Cloudinary Media" section. In the custom transformation field, provide the required image and/or video transformation. The transformation strings can be comma separated for applying multiple transformations.

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Filter tree (Alt+Down for options)				₽ \$
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🧉 Catalog Versions	PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTE	NDED ATT		REVIEV
Categories		INDED ATT	(IDUTES	REVIEW
🥤 Products	CLOUDINARY MEDIA			*
💕 Product Variant Types	Image Transformation String Video Transformation String			
👸 Units				
Keywords	Override category level transformations			
 Classification Systems 	True False N/A			
SAVED QUERIES				
No queries	CLOUDINARY PRODUCT GALLERY SPINSET			*
	Insert below the Spinset Tag for this Product. Make sure it matches the tag assigned to the Spinset Assets upload	ed to Cloud	linary.	
	Spinset Tag			

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

	Administration Cockpit *	ප්	0	\bowtie	6	ወ
prod	৫ SEARCH					₽ ≈
▼ Catalog	Snowboard Ski Tool Toko Ergo Multi Guide yellow [29533] - Apparel Product Catalog : Staged					€ ⊗
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▼ Prices						
💕 Product Price Classes	CLOUDINARY MEDIA					*
▼ Taxes	Image Transformation String Video Transformation String Override Category Level Transformations					
💕 Product Tax Classes	True False N/A	1				
SAVED QUERIES	CLOUDINARY PRODUCT GALLERY SPIN SET					*
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 Cloudinary	/.				

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.



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	upported ConversionGroup.supported Media formats with d MediaFormats 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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Filter tree (Alt+Down for options)	Q Product Q Global Operator: And	Include subtypes SEARCH
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iii Catalogs	Alternative ID - Equals -	+
🤞 Catalog Versions		
Categories	+ • ± ¢ & ± E • e	■ ■ ■ ● 1 /143 ▶ 7148 items
Products	Article Number Identifier	Contra Co
💕 Product Variant Types	Article Number Identifier	Status Catalog version
👩 Units	V 👖 100124 Panorama Pants Women	Apparel Product Catalog : Staged
🔤 Kevwords 🖕	V 👖 100124 Panorama Pants Women	Apparel Product Catalog : Online
SAVED QUERIES	V 100124_beet_red Panorama Pants Women beet red	Apparel Product Catalog : Staged
No queries	V 100124_beet_red Panorama Pants Women beet red	Apparel Product Catalog : Online
·	🗸 🧴 100191 Beacon Jacket	Apparel Product Catalog : Staged
	a 📥 100101 - Deseen lasket	Annaral Draduet 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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► System	PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARI/	ANTS	EXTEN	DED ATTRIE	UTES	REVIEV
▼ Catalog	Gallery Images					
iii Catalogs	[300020294_1] - Apparel Product Catalog : Staged					
atalog Versions						
Categories						
🃁 Products	CLOUDINARY MEDIA					*
SAVED QUERIES	Image Transformation String Video Transformation String	5				
No queries	Override category level transformations					
	True False N/A					

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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Filter tree (Alt+Down	Edit item [300020294_1] - Apparel Product Catalog	: Staged	×		₽ >
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III Catalogs PROPERTIES *	
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515Wx515H [515Wx515H] 65Wx65H [65Wx65H]	
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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	+ 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.

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iii Catalogs	6	E constant	96Wx96H [96Wx96H]	
 Catalog Versions Categories 	Comments	External ID	300Wx300H [300Wx300H]	
Products	MediaFormat.inputMediaFormat	MediaFormat.mediaMimeType		
SAVED QUERIES	Is blocked for processing True False N/A	MediaFormat.transformation		
	Madia Formati in a nafa matian finata ruma			

- 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".

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GENERAL METADATA SECURITY	ADMINISTRATION	
https://res.cloudinary.com/dfxfvh43r	/image/ image	
Туре	Public Id	/1200Wx1200H/300020294_1_12
upload	PTR-DEV sync 02/od690xu87avg6hi1uprr	
Transformation	Override Transformation	
w_1200,h_1200	True False N/A	
Format	Version	/1200Wx1200H/300020294_1.jpg .
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.

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📩 Task Conditions	Assigned Cockpit Item Templates CloudinaryMediaTransformationJob.ca	atalogVersions							
Distributed Import			•••						

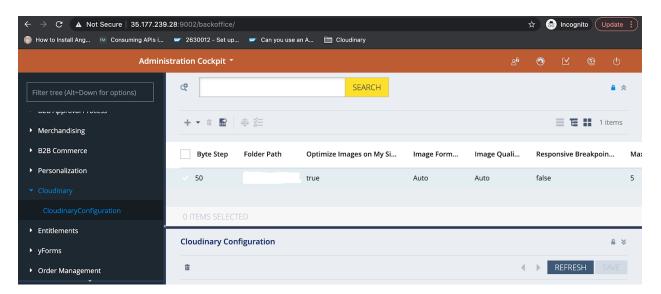
Responsive Breakpoints

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.

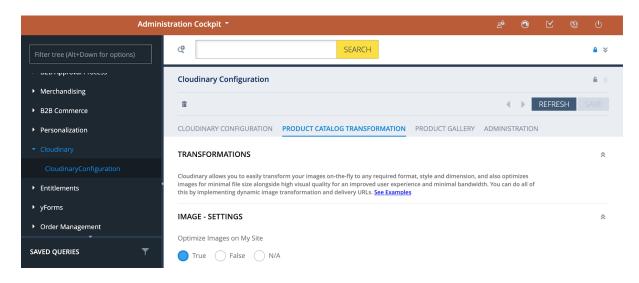
Responsive breakpoints are applied via the Cloudinary configuration wherein the user can configure custom breakpoints to be applied on images. By default, Cloudinary responsive breakpoints are enabled. Information on responsive images can be found in the Cloudinary Responsive images guide.

Follow these steps to configure responsive breakpoints:

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



2. For the selected Cloudinary configuration in the editor view, navigate to the "Product Catalog Transformation" tab.



 Scroll to the "IMAGE - BREAKPOINTS" section and 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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Personalization							
 Cloudinary 	IMAGE - BREAKPOINTS						*
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Entitlements	True False N/A	5					
▶ yForms	Byte Step	Image Width Limit Max					
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No queries	50						
	IMAGE - TRANSFORMATION						*

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