

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.

Clouinary Configuration in Backoffice

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

The Backoffice Clouinary Configuration section is composed of multiple tabs:

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

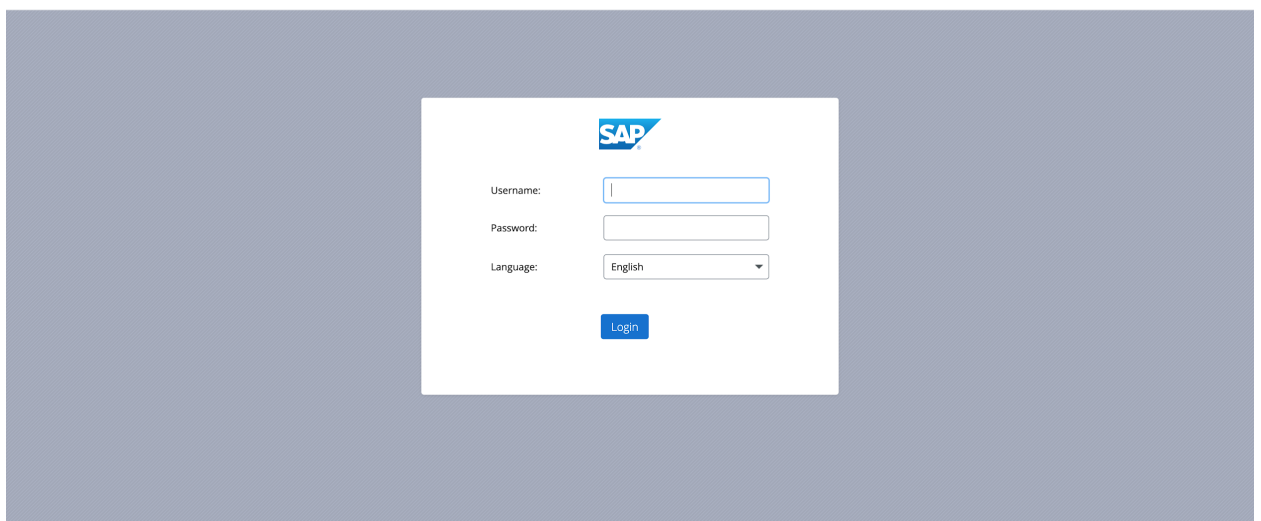
A setup wizard guides the admin through the sections making sure that all the necessary fields/attributes are populated in order to create the Clouinary Configuration item.

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

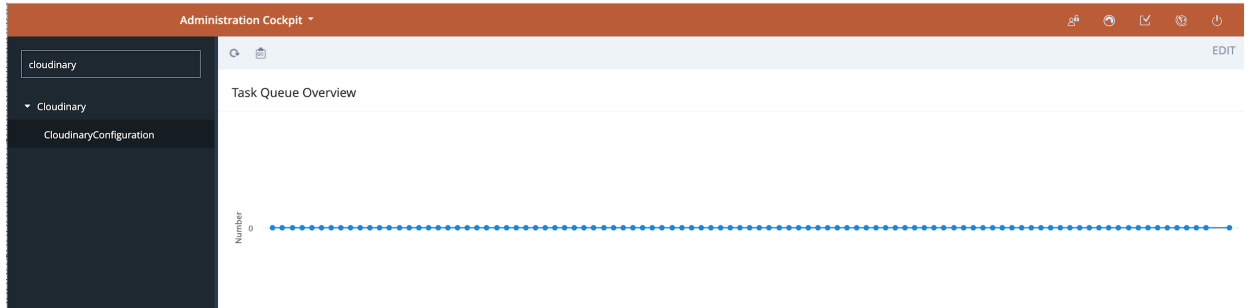
Add a New Clouinary Configuration

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

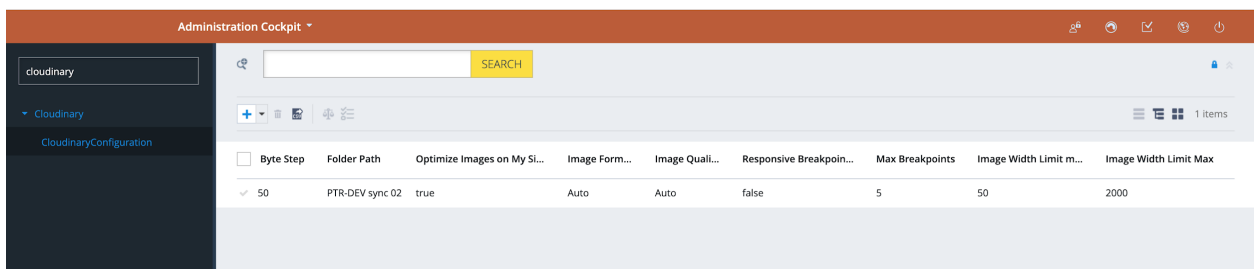
1. Log into Backoffice as an admin user.



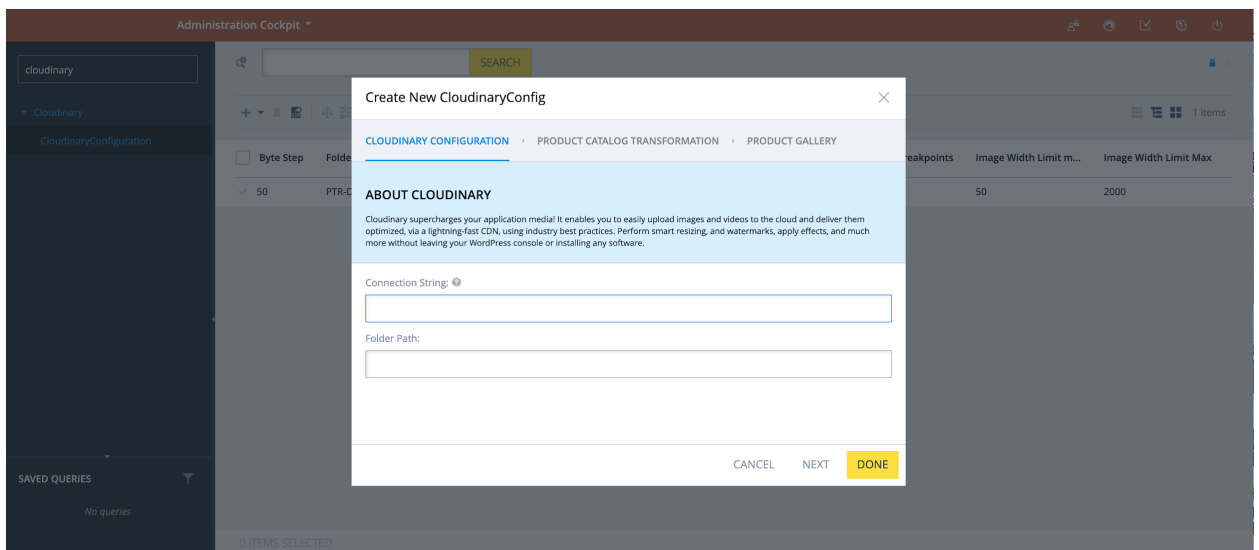
2. Search for *clouduary* in the search box in the left-hand navigation tree.



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

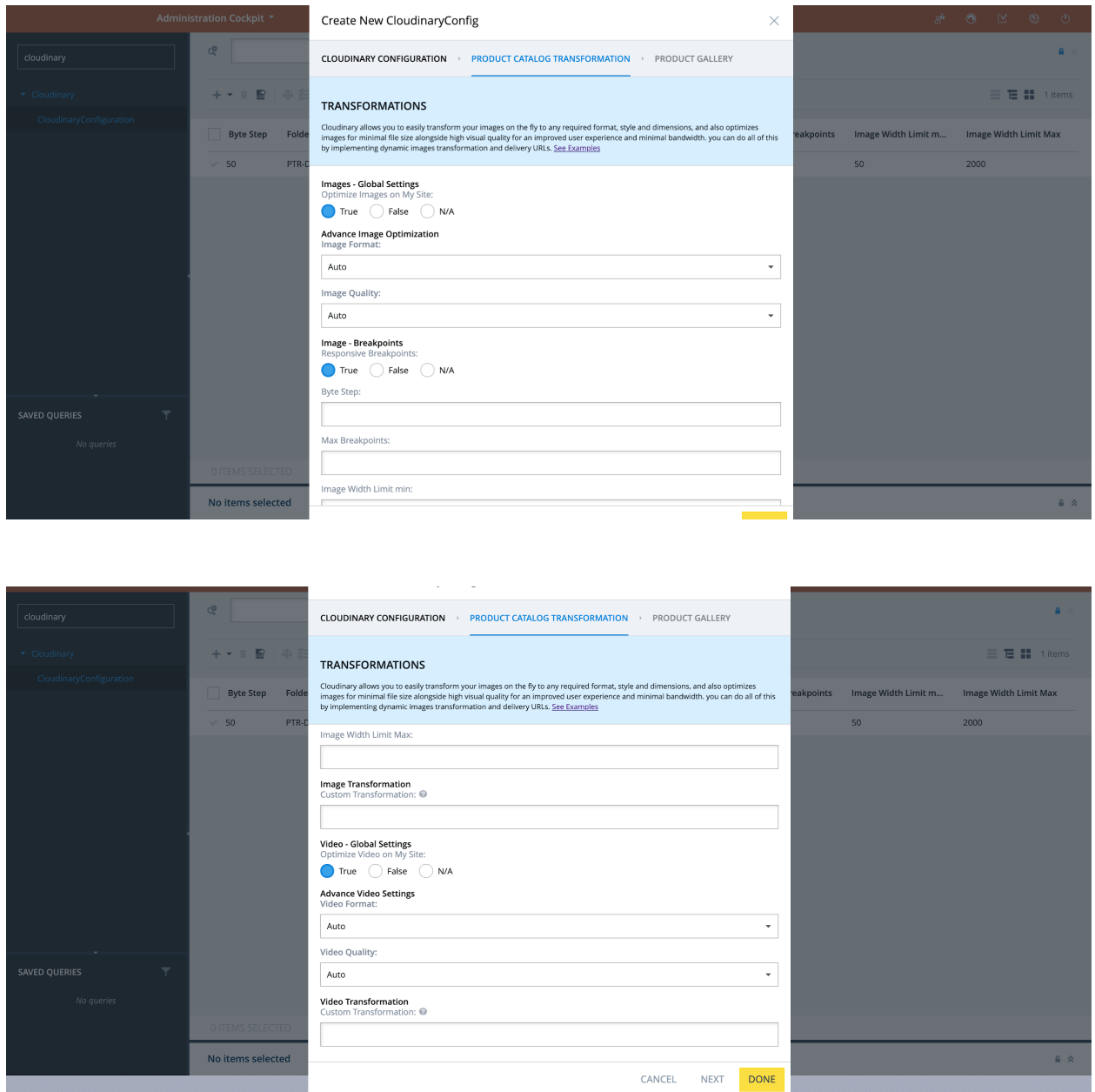


4. Clicking the “+” button opens a wizard to add the configuration details.



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 *Clouinary Product Gallery* section to learn how to apply transformations to the Product Gallery.



Administration Cockpit

cloudinary

CloudinaryConfiguration

Byte Step

50

PTRE-D

SAVED QUERIES

No queries

0 ITEMS SELECTED

No items selected

Create New ClouinaryConfig

CLOUDINARY CONFIGURATION · PRODUCT CATALOG TRANSFORMATION · PRODUCT GALLERY

TRANSFORMATIONS

Clouinary 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 this by implementing dynamic images transformation and delivery URLs. [See Examples](#)

Images - Global Settings
Optimize Images on My Site:
☒ True ☐ False ☐ N/A

Advance Image Optimization
Image Format:
Auto

Image Quality:
Auto

Image - Breakpoints
Responsive Breakpoints:
☒ True ☐ False ☐ N/A

Byte Step:
50

Max Breakpoints:
2000

Image Width Limit min:
50

Image Transformation
Custom Transformation: @

Video - Global Settings
Optimize Video on My Site:
☒ True ☐ False ☐ N/A

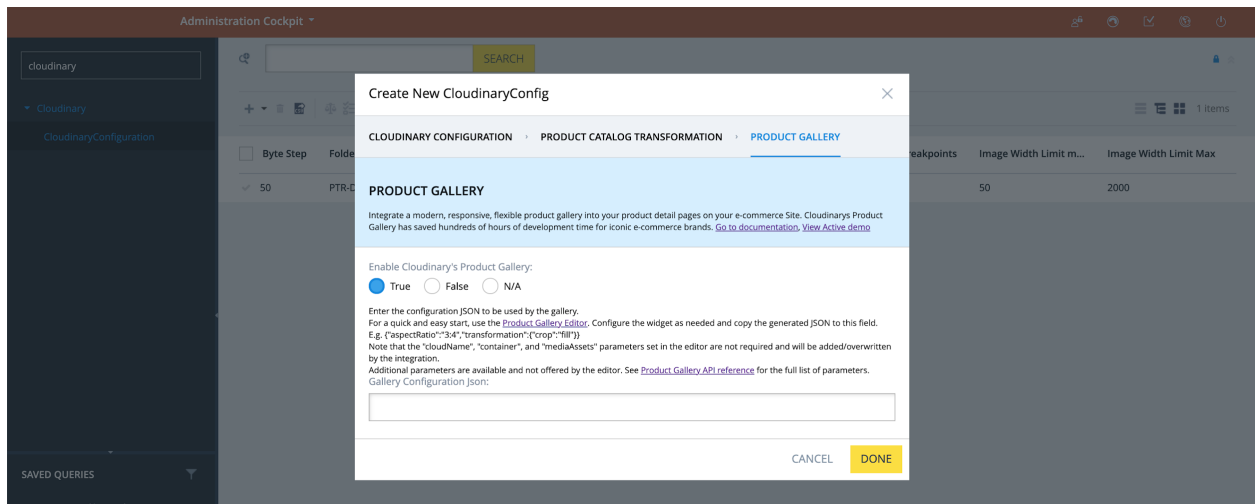
Advance Video Settings
Video Format:
Auto

Video Quality:
Auto

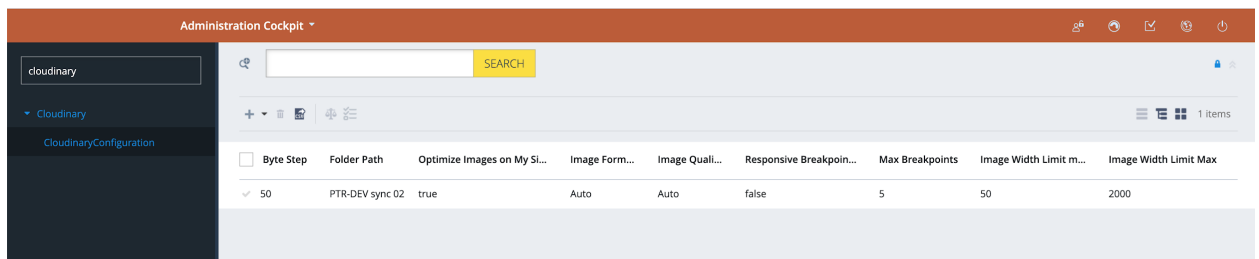
Video Transformation
Custom Transformation: @

CANCEL NEXT DONE

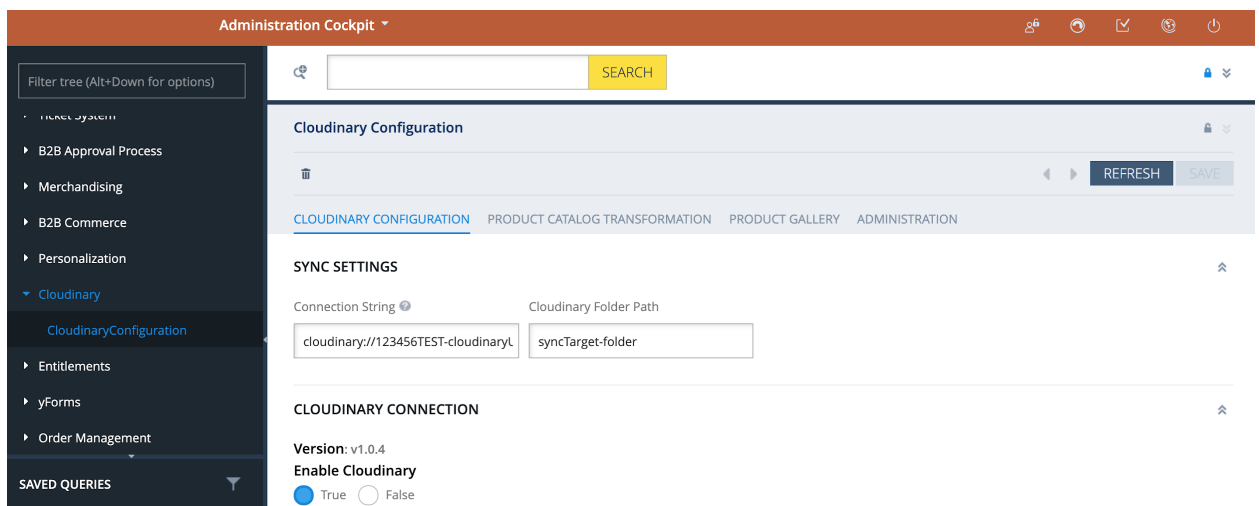
The Product Gallery step allows you to enable/disable the usage of the Product Gallery, by default embedded in the Product Detail Page.



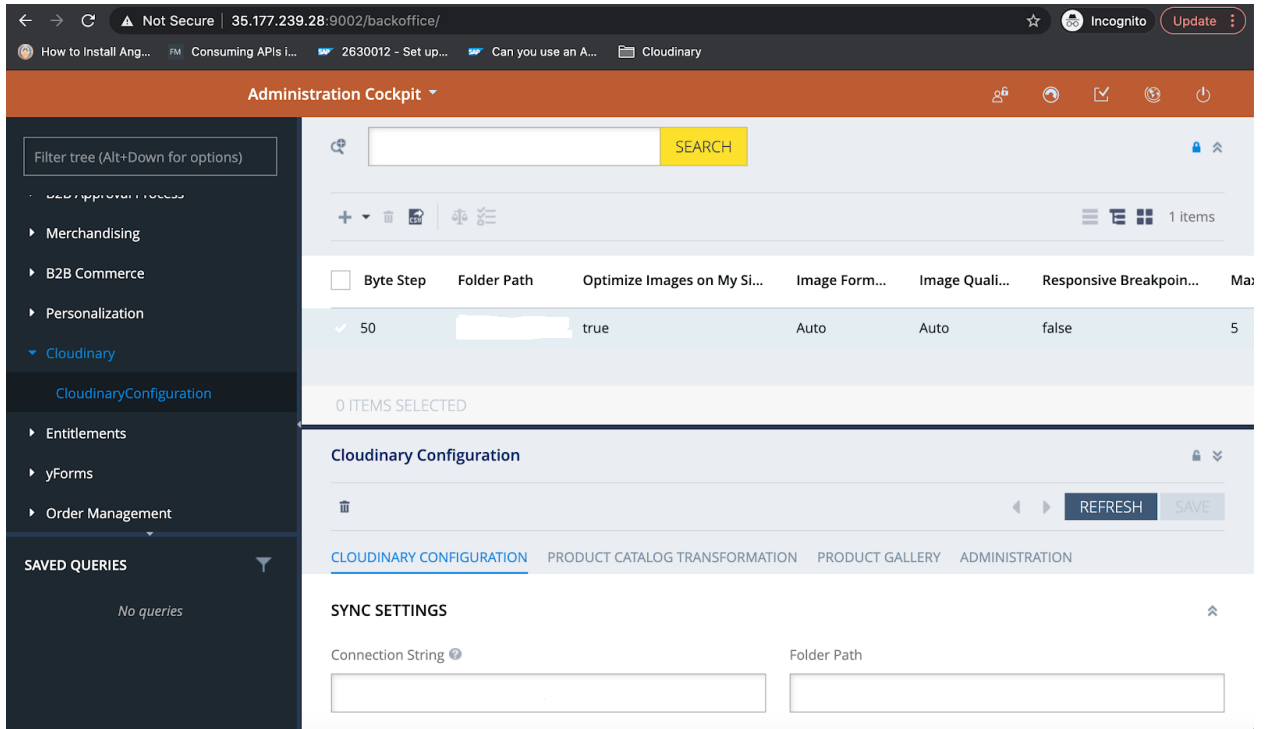
5. Once the Cloudinary Configuration item is created successfully it is displayed similar to this:



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



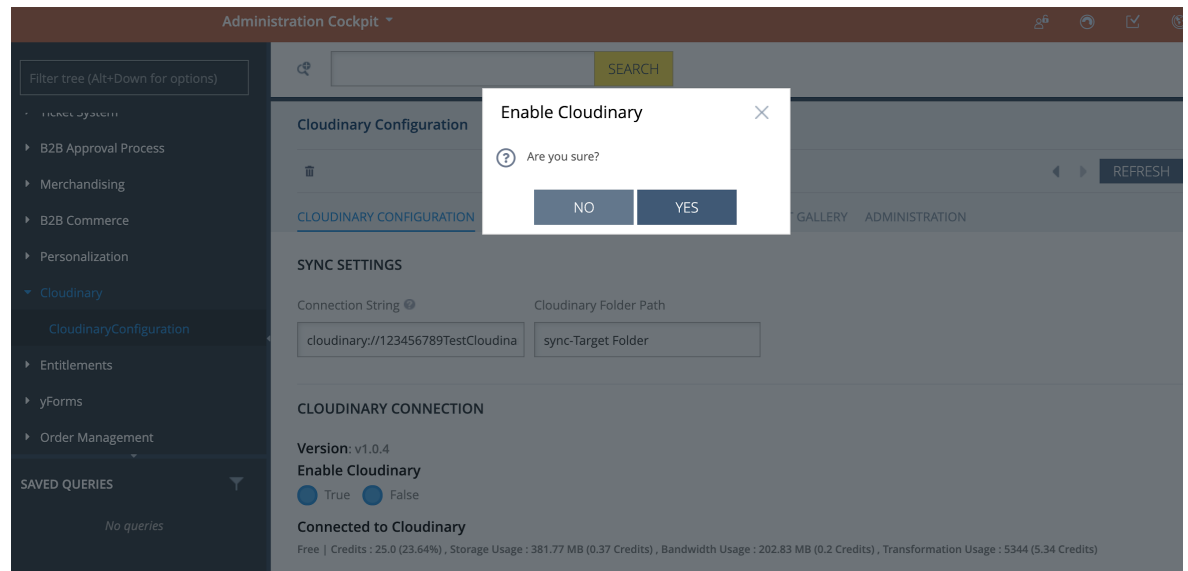
7. To modify/add any configuration value, update the value, then click the “save” button.



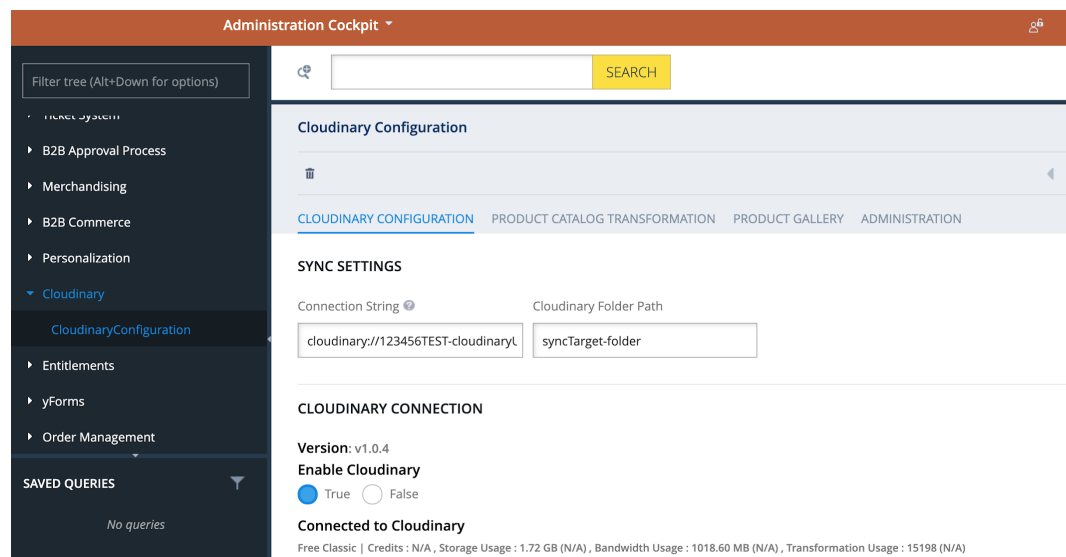
The screenshot shows the Administration Cockpit interface. On the left is a sidebar with a search bar and a tree view containing categories like Merchandising, B2B Commerce, Personalization, Cloudinary (selected), Entitlements, yForms, and Order Management. Below the sidebar is a 'SAVED QUERIES' section. The main area displays a table with configuration items. One item is visible with a checked checkbox, a value of 50, a folder path, and other settings. Below the table is a 'Cloudinary Configuration' section with a 'REFRESH' and 'SAVE' button. At the bottom is a 'SYNC SETTINGS' section with input fields for 'Connection String' and 'Folder Path'.

Byte Step	Folder Path	Optimize Images on My Si...	Image Form...	Image Quali...	Responsive Breakpoin...	Ma
<input checked="" type="checkbox"/>	50	[redacted]	true	Auto	Auto	false

8. To enable/disable the usage of the Clouinary extension, use the “Enable Clouinary” switch:
 - a. *False* - disables the Clouinary connection; the status changes to “Not Connected to Clouinary” 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.



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 Clouinary 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 Clouinary Connection string, which you can find in your Clouinary console dashboard. It is used to connect to your Clouinary account. Refer to the tooltip in the SAP Backoffice for information on where to get the Connection String from for your Clouinary account.
cloudinaryFolderPath	Folder Path *	The folder path in Clouinary to which media files are uploaded when syncing them from SAP Commerce. Make sure the folder path/name does not contain the symbols ?&#\%<>
enableClouinary	Enable Clouinary	This switch lets you enable/disable the Clouinary connection. When enabled, all the features provided by the Clouinary extension will be available. If disabled, media will still be delivered from your Clouinary account but no Clouinary features will be available (for example, no global transformations, Clouinary breakpoints or Product Gallery).
cloudinaryImageFormat	Image Format	The global image format used for all images. The default value after the extension is installed is "Auto", meaning Clouinary'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 .
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.
enableCloudinaryGalleryWidget	Enable Cloudinary's Product Gallery	This lets you enable/disable the Product Gallery.
globalCloudinaryImageTransformation	Custom Transformation	A global transformation to be applied to images.
globalCloudinaryVideoTransformation	Custom Transformation	A global transformation to be applied to videos.

cloudinaryGalleryConfigJsonString	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 Video Optimization guide .
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 Video Optimization guide .
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 Clouinary

The synchronization of the media assets from SAP Commerce to Clouinary allows you to upload all the existing SAP Commerce media to your Clouinary 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 Clouinary account as part of the **cloudinaryMediaUploadSyncCronjob** execution.

Note - During your Clouinary account setup and before starting the first synchronization of your SAP Commerce media, make sure that for any default Clouinary 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 Clouinary every time one is created in SAP Commerce Backoffice via the OOB upload step (refer to the *Upload Media Assets* section below).

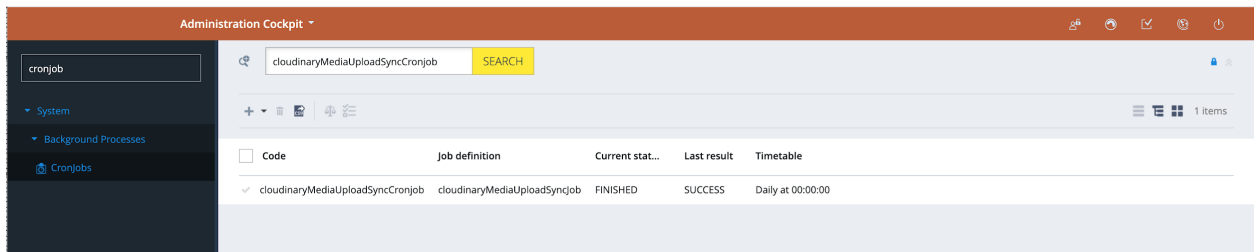
Note - The synchronization is one-way. After the assets have been synchronized/uploaded to your Clouinary account, the SAP media will refer to the *media URL* as the *Clouinary URL* and the media will be delivered using this URL.

Do not delete/move/rename any of the media files from your Clouinary 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 Clouinary

To sync the media assets from SAP Backoffice to Clouinary:

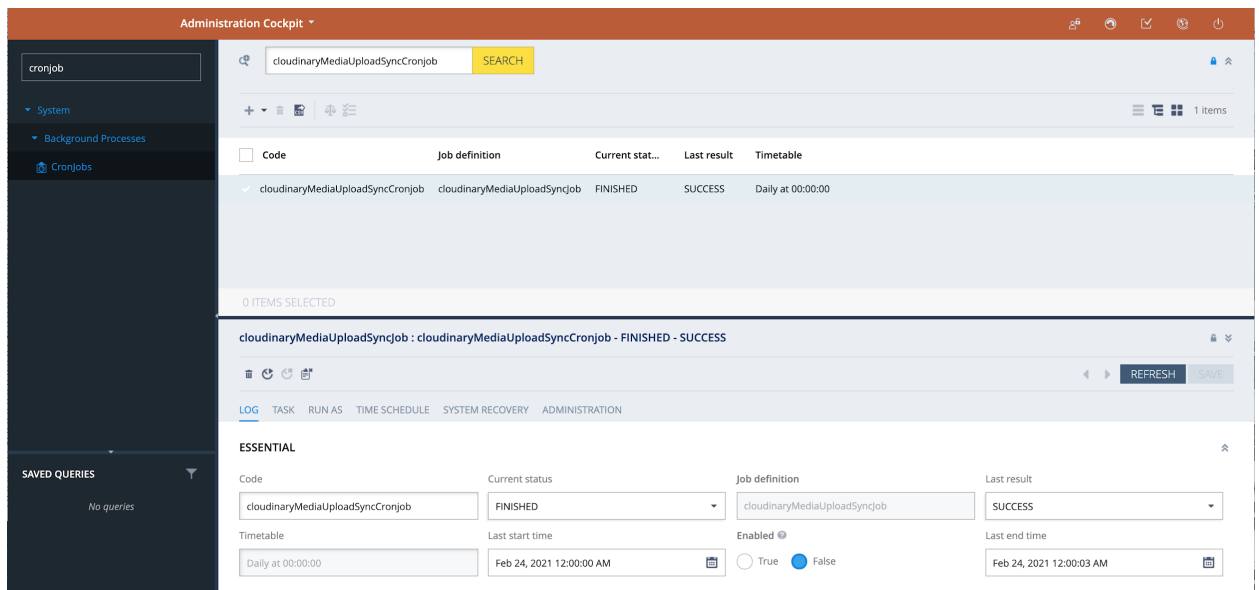
1. Log into Backoffice as an admin user.
2. Search for *cronjob* in the search box in the left-hand navigation tree.
3. Search for *cloudinaryMediaUploadSyncCronjob* in the search box at the top.



The screenshot shows the SAP Administration Cockpit interface. On the left, a navigation tree is visible with 'cronjob' selected. The main area displays a search bar with 'cloudinaryMediaUploadSyncCronjob' entered. Below the search bar, a table lists the cronjob details.

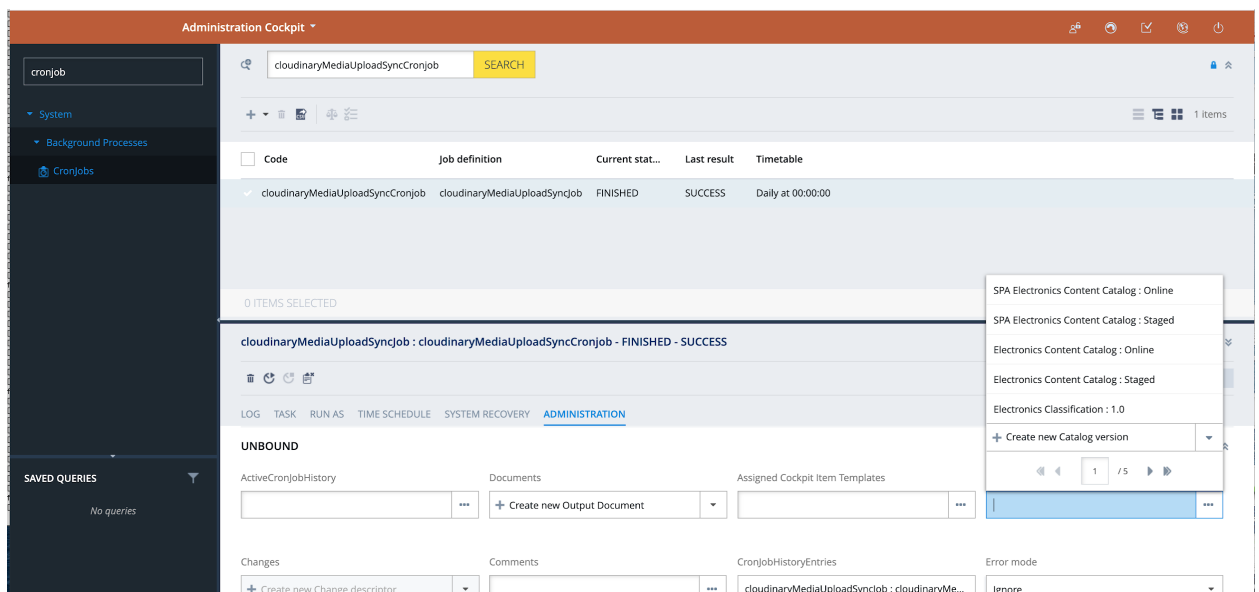
Code	Job definition	Current stat...	Last result	Timetable
✓ cloudinaryMediaUploadSyncCronjob	cloudinaryMediaUploadSyncJob	FINISHED	SUCCESS	Daily at 00:00:00

- Open the editor area of the “**cloudinaryMediaUploadSyncCronjob**” cronjob.



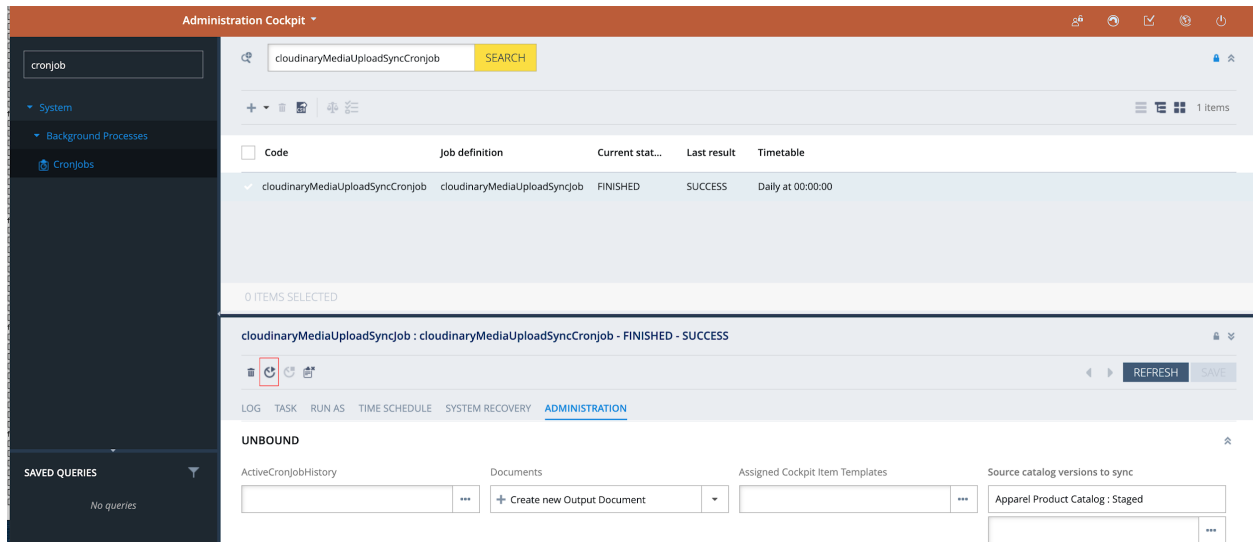
The screenshot shows the Administration Cockpit interface. On the left, a sidebar contains a search bar with 'cronjob' and a list of system components: System, Background Processes, and Cronjobs. The main area displays a table with one row for the 'cloudinaryMediaUploadSyncCronjob'. The table has columns for Code, Job definition, Current status, Last result, and Timetable. Below the table, there is a section titled 'cloudinaryMediaUploadSyncJob : cloudinaryMediaUploadSyncCronjob - FINISHED - SUCCESS'. This section includes tabs for LOG, TASK, RUN AS, TIME SCHEDULE, SYSTEM RECOVERY, and ADMINISTRATION. The ADMINISTRATION tab is active, showing an 'ESSENTIAL' section with fields for Code, Current status, Job definition, Last result, Timetable, Last start time, Enabled, and Last end time.

- Go to the “**Unbound**” section of the “**Administration**” tab and select the catalog version for which you want to sync the media assets to Clouinary.



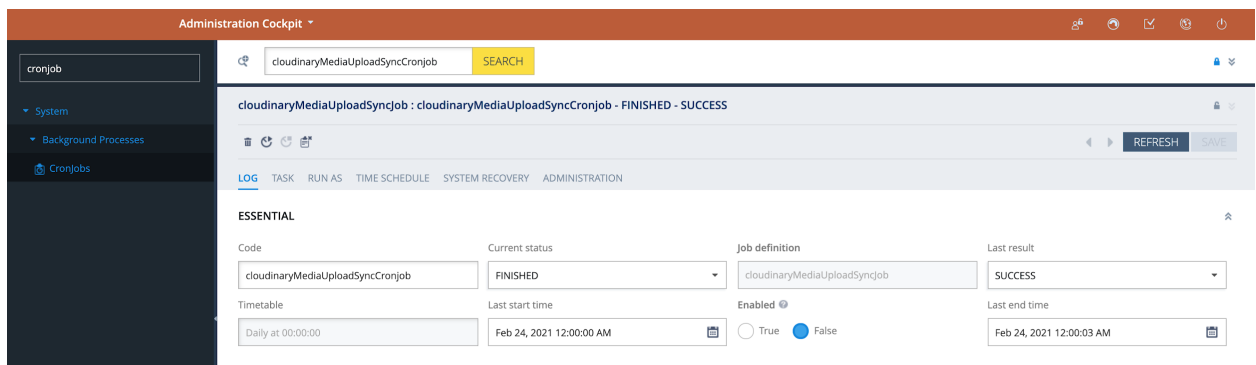
The screenshot shows the Administration Cockpit interface, specifically the 'Unbound' section of the 'Administration' tab. The sidebar is the same as in the previous screenshot. The main area displays a table with one row for the 'cloudinaryMediaUploadSyncCronjob'. Below the table, there is a section titled 'cloudinaryMediaUploadSyncJob : cloudinaryMediaUploadSyncCronjob - FINISHED - SUCCESS'. This section includes tabs for LOG, TASK, RUN AS, TIME SCHEDULE, SYSTEM RECOVERY, and ADMINISTRATION. The ADMINISTRATION tab is active, showing an 'UNBOUND' section. This section contains fields for ActiveCronJobHistory, Documents, Assigned Cockpit Item Templates, Changes, Comments, CronJobHistoryEntries, and Error mode. A dropdown menu is open, showing a list of catalog versions: SPA Electronics Content Catalog : Online, SPA Electronics Content Catalog : Staged, Electronics Content Catalog : Online, Electronics Content Catalog : Staged, and Electronics Classification : 1.0. Below the dropdown, there is a button to 'Create new Catalog version'.

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



The screenshot shows the 'Administration Cockpit' interface. On the left sidebar, 'Cronjobs' is selected under 'Background Processes'. The main area displays a table with one cronjob: 'cloudinaryMediaUploadSyncCronjob'. The 'Current status' is 'FINISHED' and the 'Last result' is 'SUCCESS'. Below the table, the 'ADMINISTRATION' tab is active, showing various configuration options like 'ActiveCronjobHistory', 'Documents', 'Assigned Cockpit Item Templates', and 'Source catalog versions to sync'. A red box highlights the 'Sync' icon (a circular arrow) in the toolbar above the configuration section.

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



The screenshot shows the 'Administration Cockpit' interface with the 'LOG' tab selected. The main area displays the details of the 'cloudinaryMediaUploadSyncCronjob'. The 'Current status' is 'FINISHED' and the 'Last result' is 'SUCCESS'. The 'Timetable' is 'Daily at 00:00:00'. The 'Last start time' is 'Feb 24, 2021 12:00:00 AM' and the 'Last end time' is 'Feb 24, 2021 12:00:03 AM'. The 'Enabled' checkbox is checked.

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 Cloudeary, depending on how much media there is to upload. Subsequent runs of the cronjob will sync to your Cloudeary 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 Clouinary account while creating a media item in the SAP Commerce Backoffice. Clouinary'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 Clouinary Media Library and perform any action without leaving the SAP Backoffice.

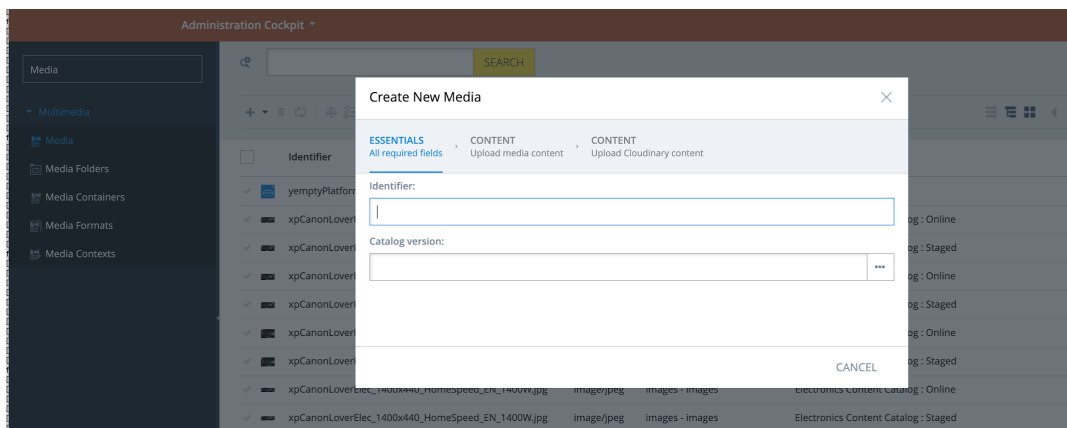
You need to log into your Clouinary account to access the Media Library.

Note - The SAP Backoffice is cookie aware, so if you have accessed your Clouinary 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.

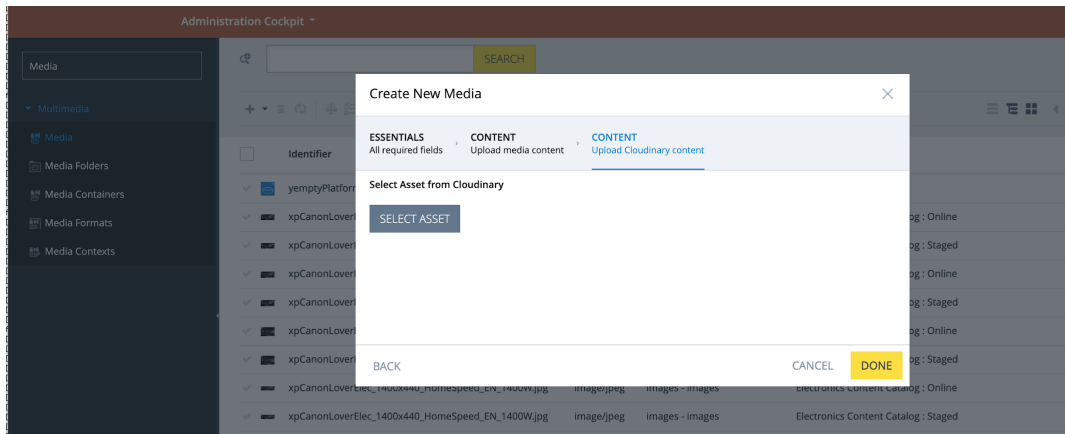
Media Creation

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

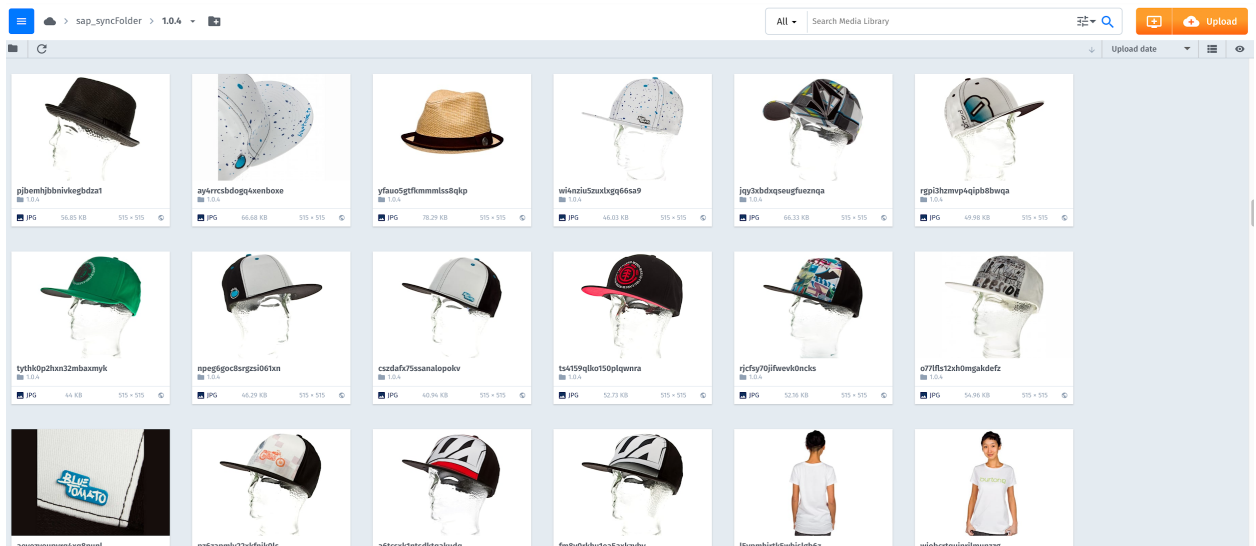
1. Log into SAP Backoffice as an admin user.
2. Search for *media* in the search box in the left-hand navigation tree and expand the *Multimedia* node. Click on Media.
3. Click the “+” button to open the *Create New Media* wizard. Fill in the unique identifier field and select the catalog version (**note**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



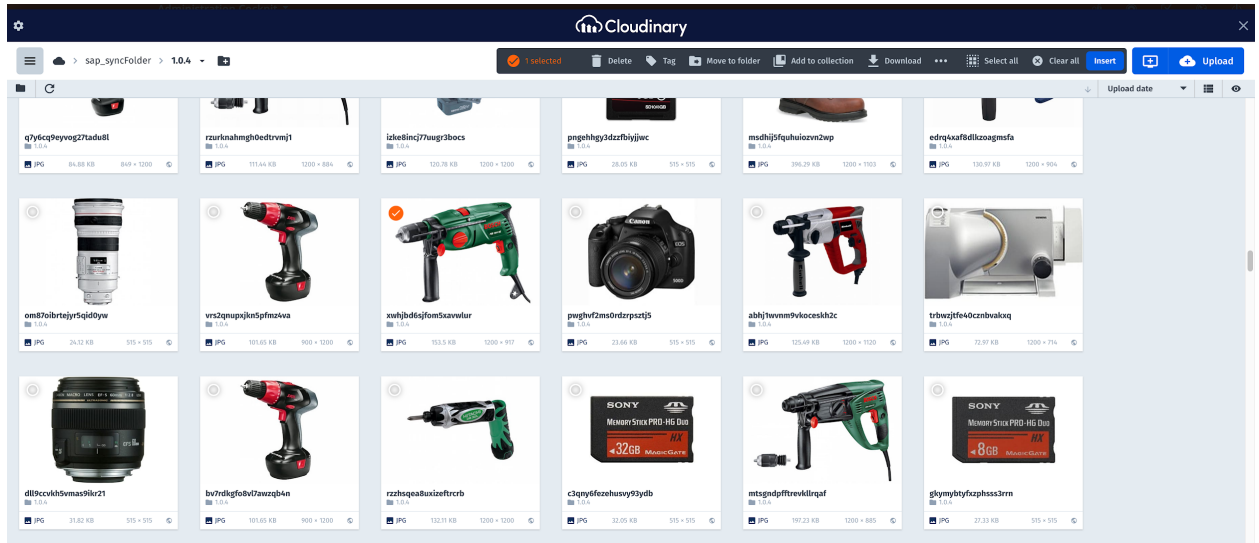
- To associate the media with an asset from the Clouinary Media Library, go to the **“CONTENT - Upload Clouinary content”** tab, then click the **“SELECT ASSET”** button.



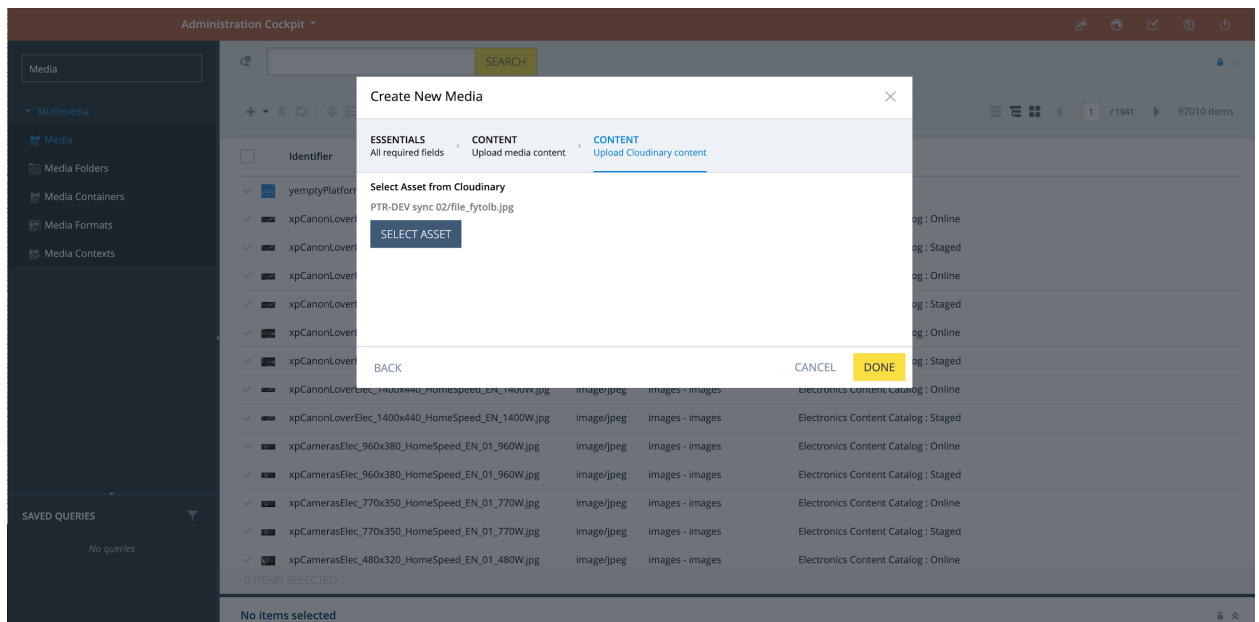
- On clicking the **“SELECT ASSET”** button the Clouinary Media Library opens.



- Select an asset and then click the **“Insert”** button to upload the asset.



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



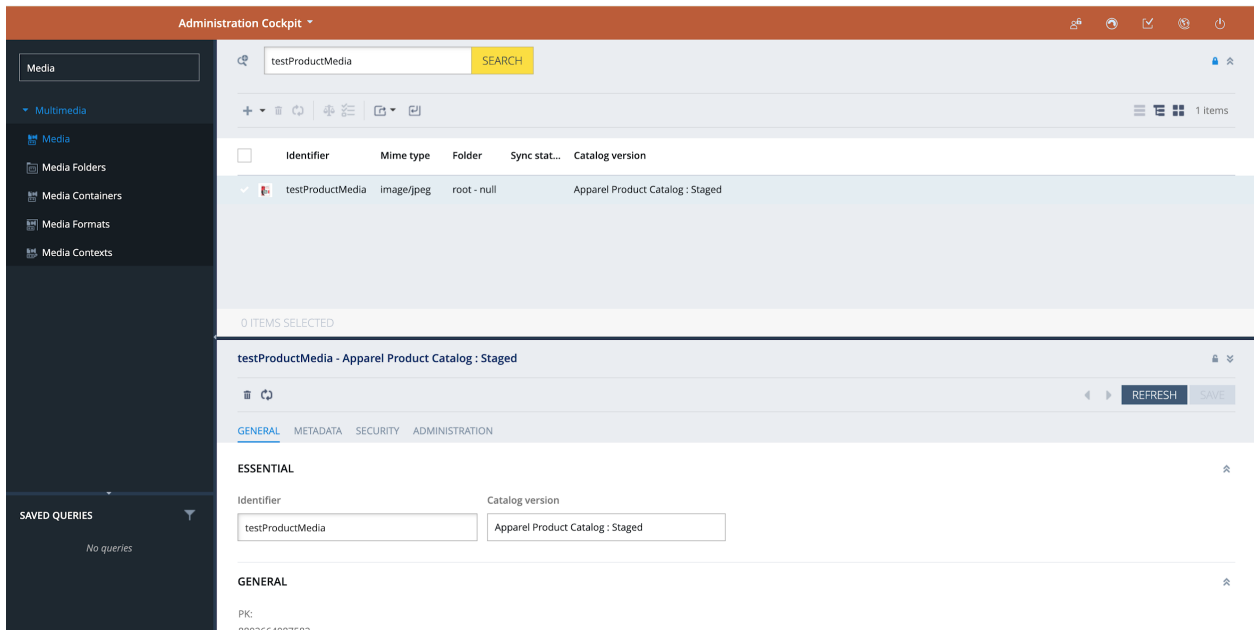
Note - In line with SAP Commerce concept of Media, you can upload/associate only one asset at a time.

- Clicking the **“Done”** button creates media in SAP Commerce.

Media Update

To update an existing media:

1. Search for the media to update.



The screenshot shows the Cloudinary Administration Cockpit interface. On the left is a sidebar with a 'Media' section and a 'SAVED QUERIES' section. The main area displays a search bar with 'testProductMedia' and a 'SEARCH' button. Below the search bar is a table with columns: Identifier, Mime type, Folder, Sync stat..., and Catalog version. The table contains one row for 'testProductMedia' with mime type 'image/jpeg' and folder 'root - null'. Below the table is a section for 'testProductMedia - Apparel Product Catalog : Staged' with tabs for GENERAL, METADATA, SECURITY, and ADMINISTRATION. The GENERAL tab is active, showing fields for Identifier and Catalog version, both containing the same values as in the table. Below this is a GENERAL section with a PK field.

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.

Administration Cockpit

testProductMedia SEARCH

testProductMedia - Apparel Product Catalog : Staged

GENERAL METADATA SECURITY ADMINISTRATION

PROPERTIES

URL: Mime type: Real filename: Media format:

Media container: Folder: Supercategories:

MOVE MEDIA

CLOUDINARY MEDIA CONTENT

CLOUDINARY MEDIA ATTRIBUTES

Cloudinary Image URL: Resource Type: Type: Public Id:

Transformation: Override Transformation: ☐ True ☐ False ☒ N/A Format: Version:

SAVED QUERIES

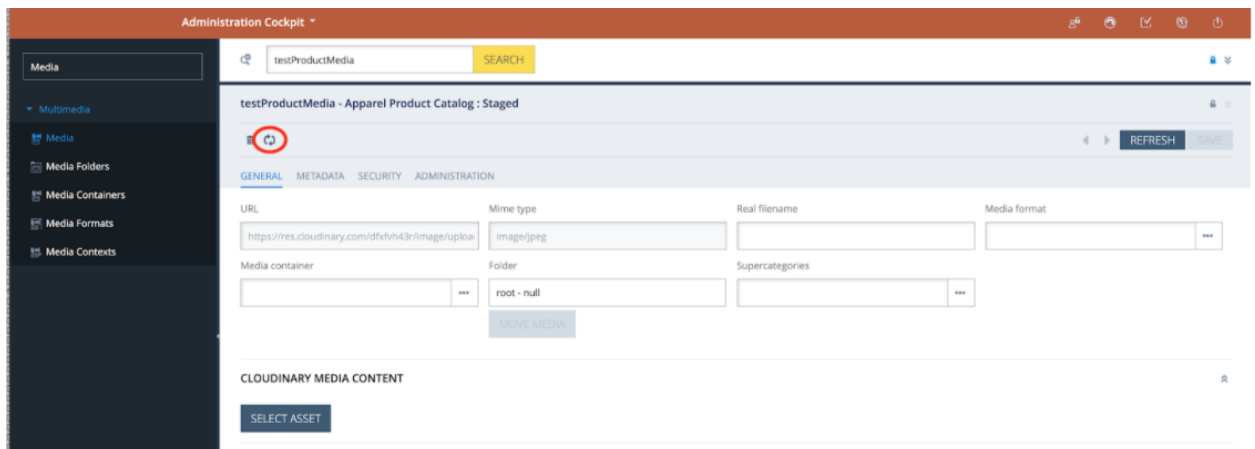
No queries

The following table shows the list of attributes populated from the Clouinary 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	Type	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 Clouinary.
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- To update the media asset, click the **“SELECT ASSET”** button from the editor area.
- To sync media from the staged to the online version of the catalog, click the *Sync* button as shown below.



Administration Cockpit

testProductMedia SEARCH

testProductMedia - Apparel Product Catalog : Staged

REFRESH

GENERAL METADATA SECURITY ADMINISTRATION

URL: Mime type: Real filename: Media format:

Media container: Folder: Supercategories:

MOVE MEDIA

CLOUDINARY MEDIA CONTENT

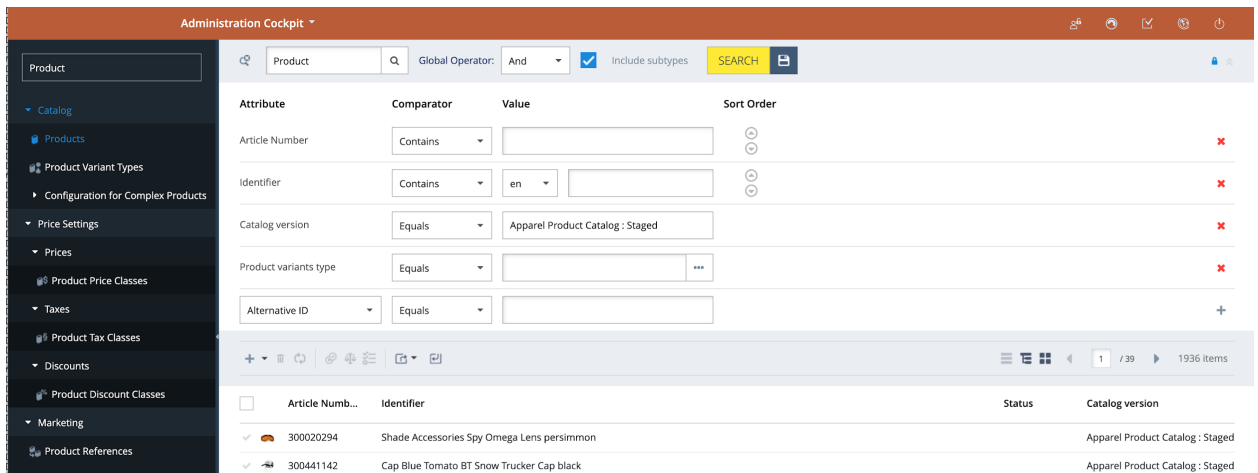
SELECT ASSET

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 Clouduary 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 Clouduary 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).



The screenshot shows the 'Administration Cockpit' interface. On the left is a sidebar with a 'Product' tab selected. The main area displays a search form with the following fields:

Attribute	Comparator	Value	Sort Order
Article Number	Contains		
Identifier	Contains	en	
Catalog version	Equals	Apparel Product Catalog : Staged	
Product variants type	Equals		
Alternative ID	Equals		

Below the search form is a table of results:

Article Numb...	Identifier	Status	Catalog version
300020294	Shade Accessories Spy Omega Lens persimmon		Apparel Product Catalog : Staged
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.

Administration Cockpit

Product

Global Operator: And Include subtypes SEARCH

Snowboard Ski Tool Toko Waxremover HC3 500ml [45572] - Apparel Product Catalog : Staged

REFRESH SAVE

PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIBUTES REVIEWS STOCK ADMINISTRATION

ESSENTIAL

Article Number Identifier Catalog version Approval

45572 Snowboard Ski Tool Toko Waxremover HC3 500ml Apparel Product Catalog : Staged approved

IMAGES

Image Thumbnail

/300Wx300H/45572_1.jpg - Apparel Product ... /96Wx96H/45572_1.jpg - Apparel Product Cat...

ADDITIONAL MULTIMEDIA OBJECTS

Specifications Details Logos Normals

/300Wx300H/45572_1.jpg - Apparel Product ...

Others Thumbnails Gallery Images

/1200Wx1200H/45572_1.jpg - Apparel Product ... /96Wx96H/45572_1.jpg - Apparel Product Cat... [45572_1] - Apparel Product Catalog : Staged

/515Wx515H/45572_1.jpg - Apparel Product ... [a4d28bac-678e-492a-904d-79a50098c824] - Ap...

- From the “**Gallery Images**” attribute, create a new media container and assign the desired media to the media container, as shown:

Administration Cockpit

Product

Global Operator: And Include subtypes SEARCH

Snowboard Ski Tool Toko Waxremover HC3 500ml [45572] - Apparel Product Catalog : Staged

REFRESH SAVE

PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIBUTES REVIEWS STOCK ADMINISTRATION

IMAGES

Image Thumbnail

/300Wx300H/45572_1.jpg - Apparel Product ... /96Wx96H/45572_1.jpg - Apparel Product Cat...

ADDITIONAL MULTIMEDIA OBJECTS

Specifications Details Logos Normals

/300Wx300H/45572_1.jpg - Apparel Product ...

Others Thumbnails Gallery Images

/1200Wx1200H/45572_1.jpg - Apparel Product ... /96Wx96H/45572_1.jpg - Apparel Product Cat... [45572_1] - Apparel Product Catalog : Staged

/515Wx515H/45572_1.jpg - Apparel Product ... [a4d28bac-678e-492a-904d-79a50098c824] - Ap...

[30404_3] - Apparel Product Catalog : Staged

[9a0d2448-777a-4568-accf-929a38ad6b12] - Apparel Product Catalog : Online

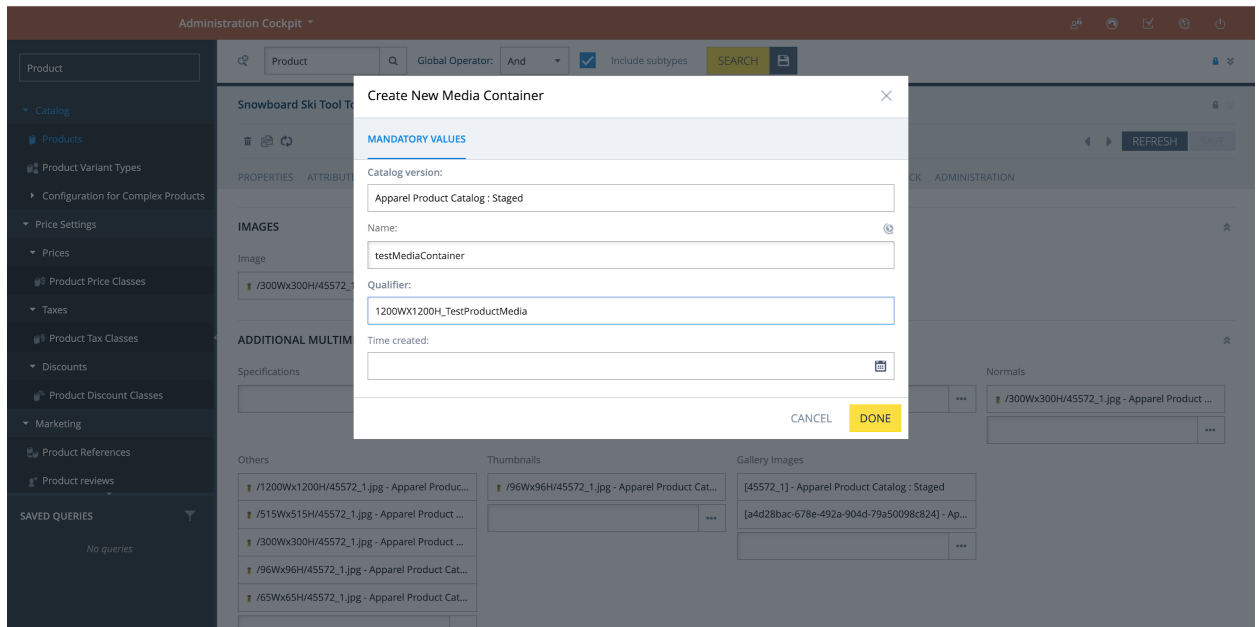
[a4d28bac-678e-492a-904d-79a50098c824] - Apparel Product Catalog : Online

[a4d28bac-678e-492a-904d-79a50098c824] - Apparel Product Catalog : Staged

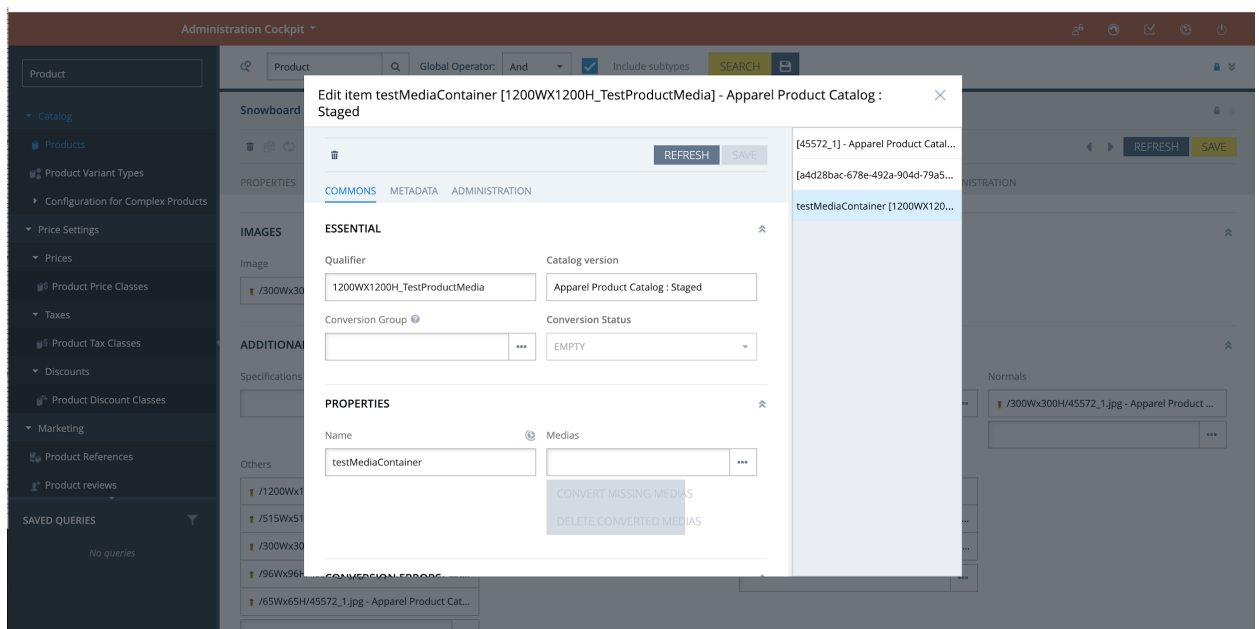
[7c871231-6be8-4e2d-aea2-99e1b20398d6] - Apparel Product Catalog : Online

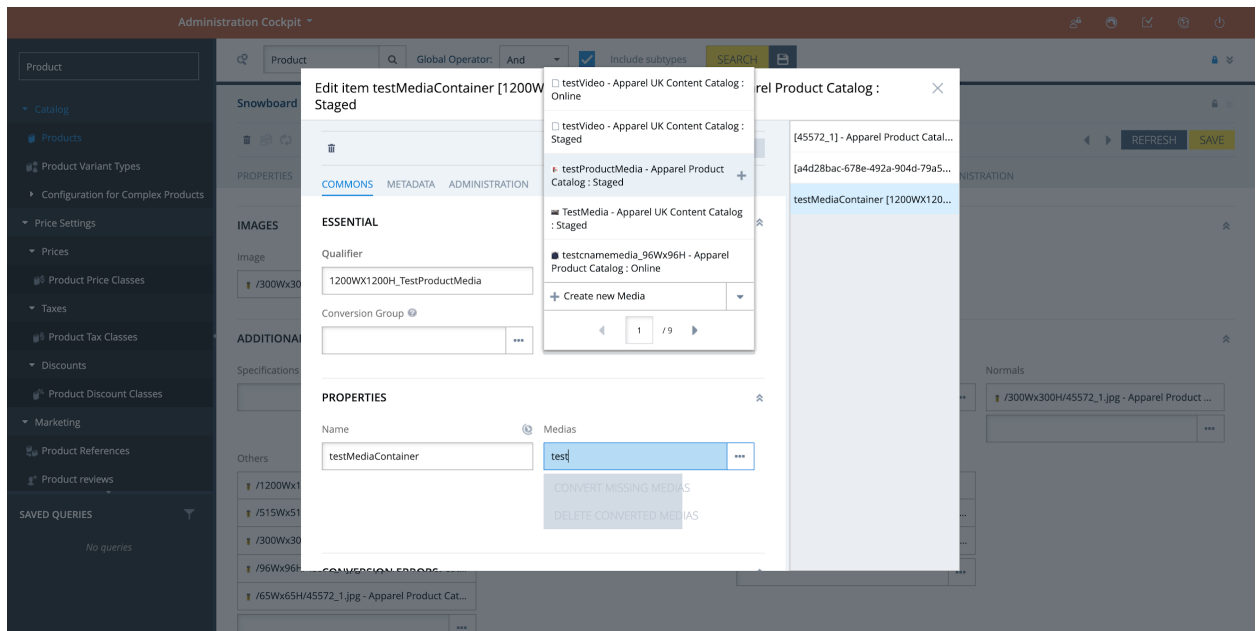
+ Create new Media Container

1 / 921

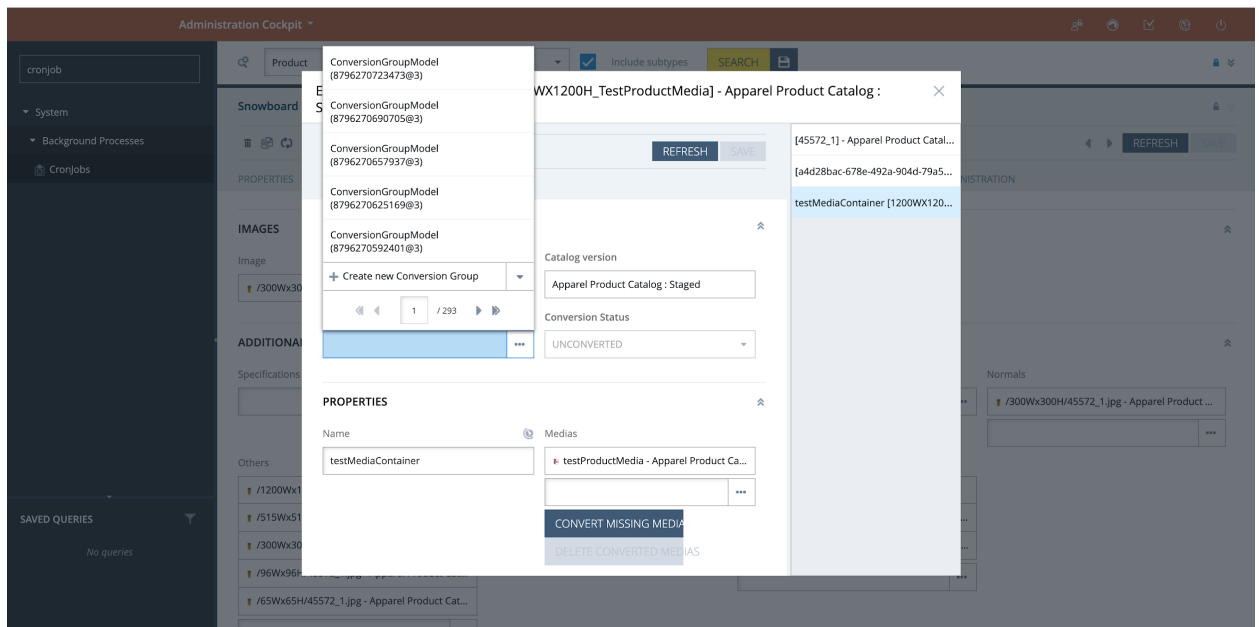


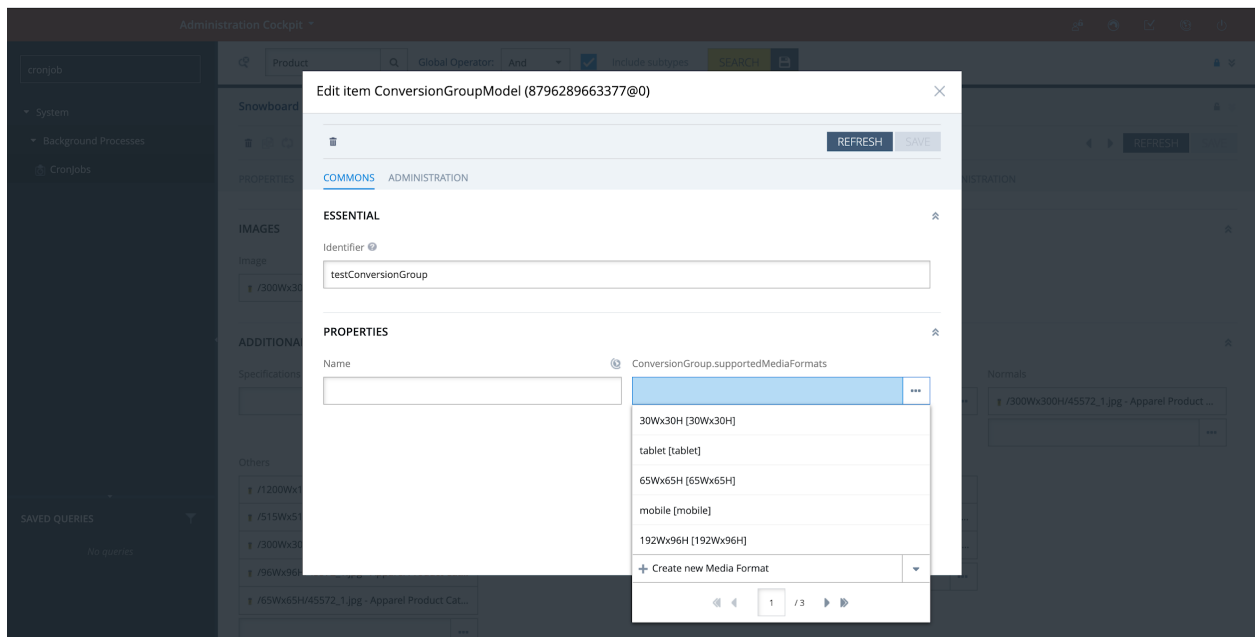
4. Make sure to use the same catalog version used to create media.





- 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:





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

Administration Cockpit

Search: CronJob Global Operator: And Include subtypes SEARCH

Attribute	Comparator	Value	Sort Order
Code	Starts With	cloudinary	
Job definition	Equals		
Current status	Equals		
Last result	Equals		
Alternative Data Source	Equals		

cloudinaryMediaTransformationJob : cloudinaryMediaTransformationCronJob - FINISHED - SUCCESS

LOG TASK RUN AS TIME SCHEDULE SYSTEM RECOVERY ADMINISTRATION

ESSENTIAL

Code	Current status	Job definition	Last result
cloudinaryMediaTransformationCronJob	FINISHED	cloudinaryMediaTransformationJob	SUCCESS
Timeable	Last start time	Enabled	Last end time
Daily at 00:30:00	Feb 24, 2021 4:02:28 PM	<input type="radio"/> True <input checked="" type="radio"/> False	Feb 24, 2021 4:04:18 PM

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

Administration Cockpit

Search: CronJob Global Operator: And Include subtypes SEARCH

cloudinaryMediaTransformationJob : cloudinaryMediaTransformationCronJob - FINISHED - SUCCESS

LOG TASK RUN AS TIME SCHEDULE SYSTEM RECOVERY ADMINISTRATION

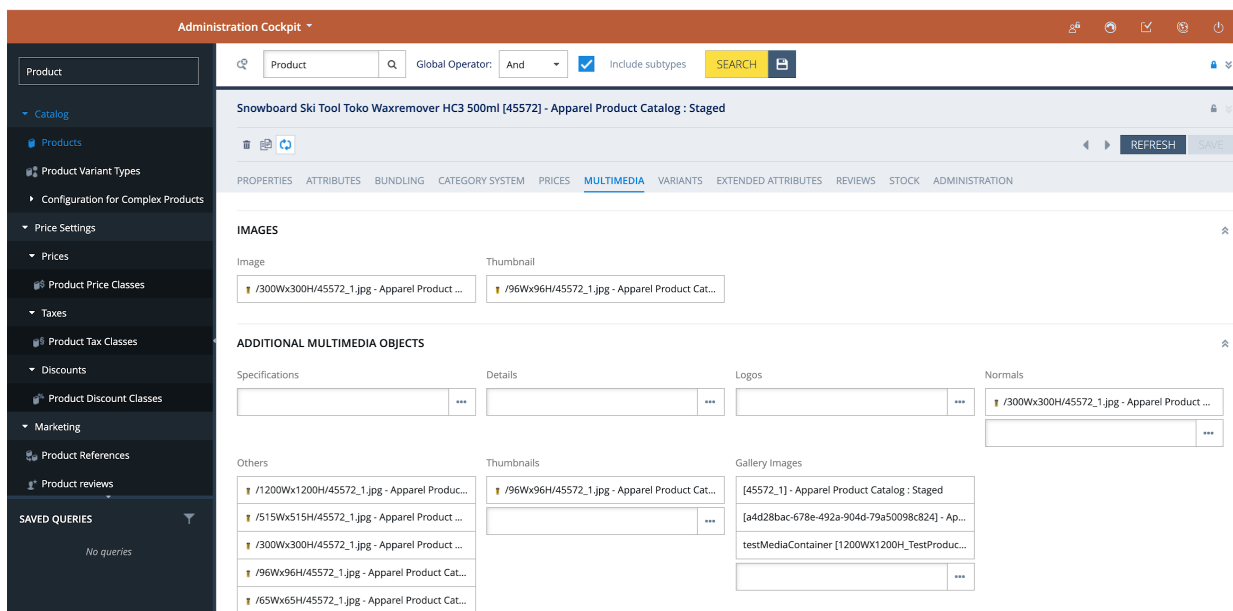
UNBOUND

ActiveCronJobHistory	Documents	Assigned Cockpit Item Templates	CloudinaryMediaTransformationJob.catalogVersions
	+ Create new Output Document		Apparel Product Catalog : Staged
Changes	Comments	CronJobHistoryEntries	Error mode
+ Create new Change descriptor		cloudinaryMediaTransformationJob : cloudinary...	Ignore
		+ Create new CronJobHistory	
Maximum number of rows	Request Abort	Request abort step	Is blocked for processing
1000	<input type="radio"/> True <input type="radio"/> False <input checked="" type="radio"/> N/A	<input type="radio"/> True <input type="radio"/> False <input checked="" type="radio"/> N/A	<input type="radio"/> True <input checked="" type="radio"/> False <input type="radio"/> N/A

COPIES

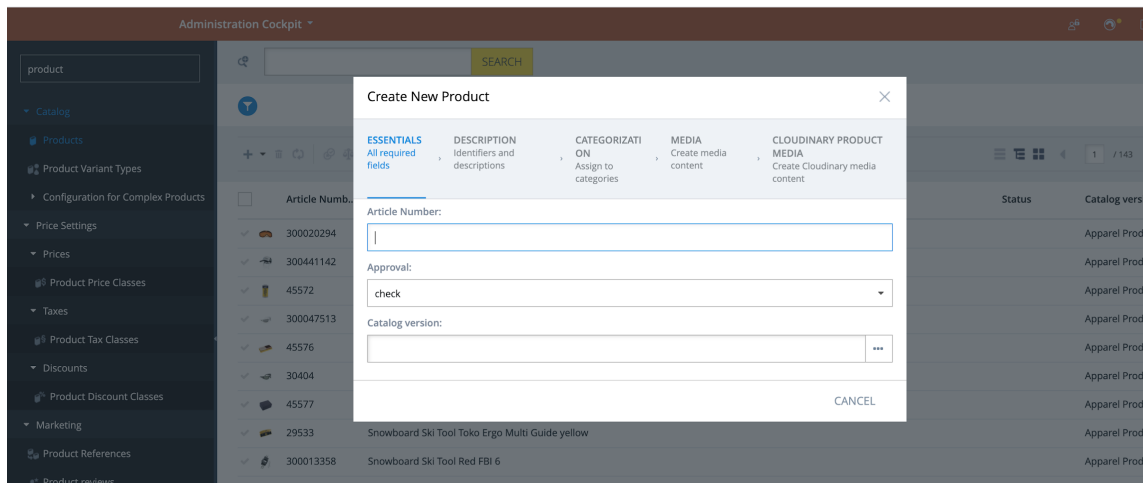
Target synchronization timestamps	Source synchronization timestamps

- 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.

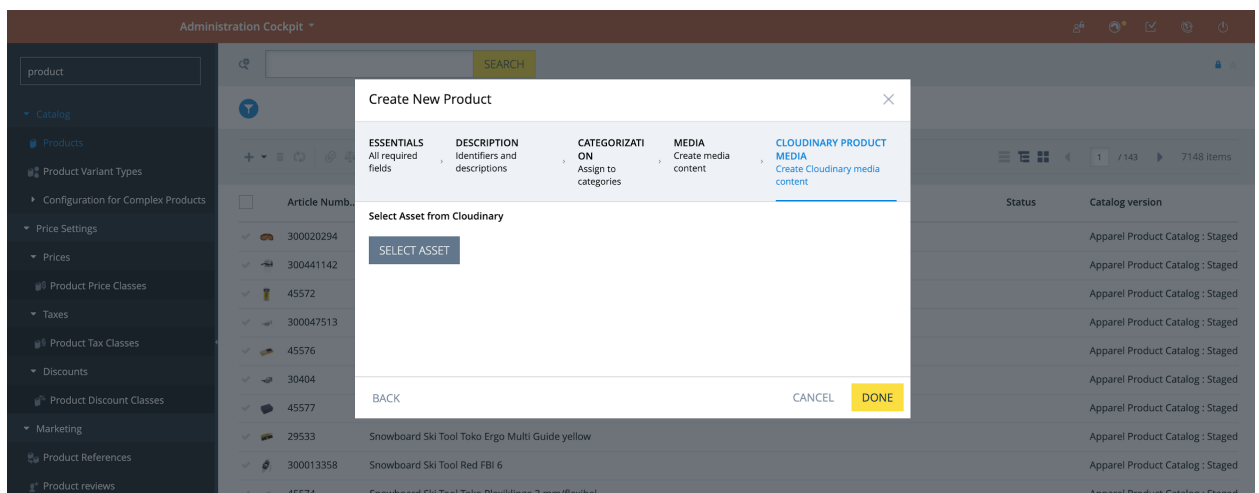


Create New Product and Associate Media

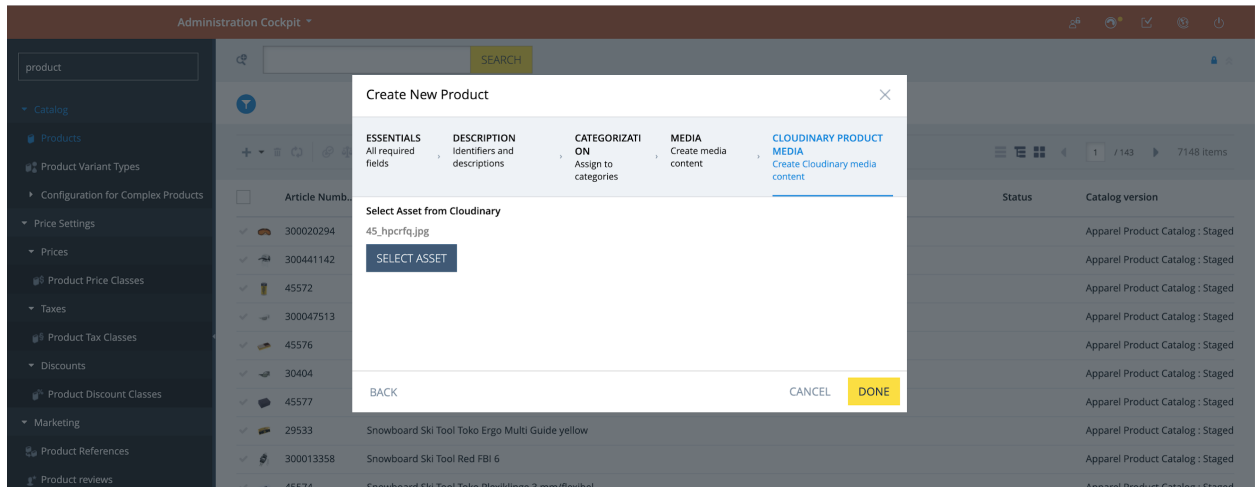
- Navigate to "Product" from the left navigation, and click "+" to create a new product. The OOB *Create New Product* wizard is displayed.
- Add "Article Number" and "Catalog Version" and click the "Next" button.



- To add a media via the Clouduary Media Library, navigate to the last step “CLOUDINARY PRODUCT MEDIA” and click the “SELECT ASSET” button.



- Either upload or select an existing asset from your Clouduary 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.



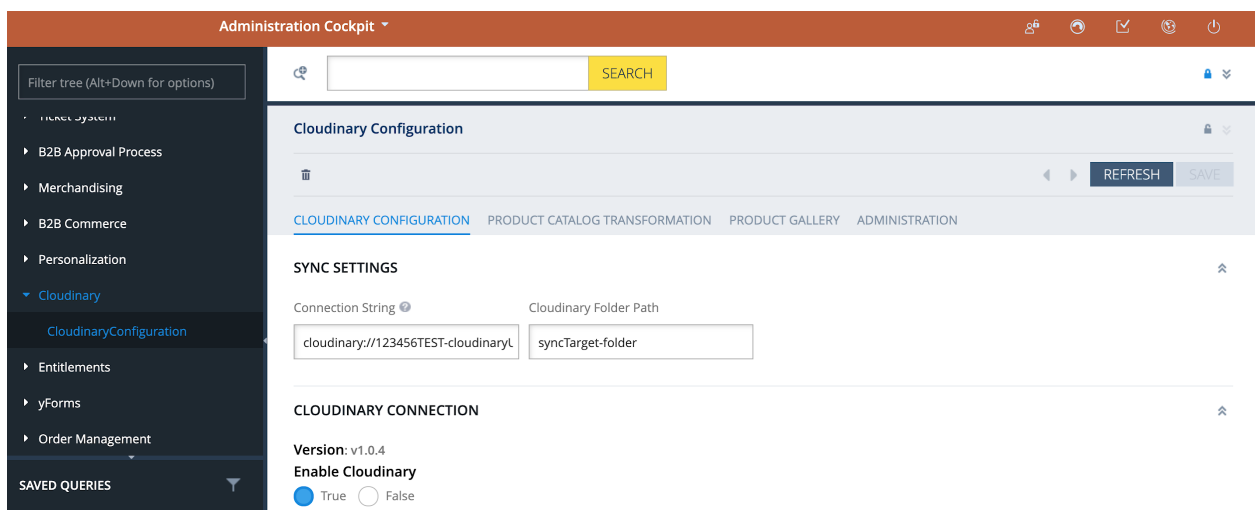
5. Open the newly created product and navigate to the *Multimedia* tab. Open *Gallery Image* and expand to validate the media has been correctly associated.
6. Now add a conversion group, trigger **clouinaryTransformationSyncJob** and run the product sync, as shown in the above section, for updating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

Clouinary Product Gallery

Enable Clouinary Product Gallery

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

1. Log into Backoffice.
2. Navigate to Clouinary > ClouinaryConfiguration and open the existing configuration.



Administration Cockpit

Filter tree (Alt+Down for options)

- Cloudinary
 - CloudinaryConfiguration

Cloudinary Configuration

Cloudinary Configuration | PRODUCT CATALOG TRANSFORMATION | PRODUCT GALLERY | ADMINISTRATION

SYNC SETTINGS

Connection String: clouinary://123456TEST-clouinaryL

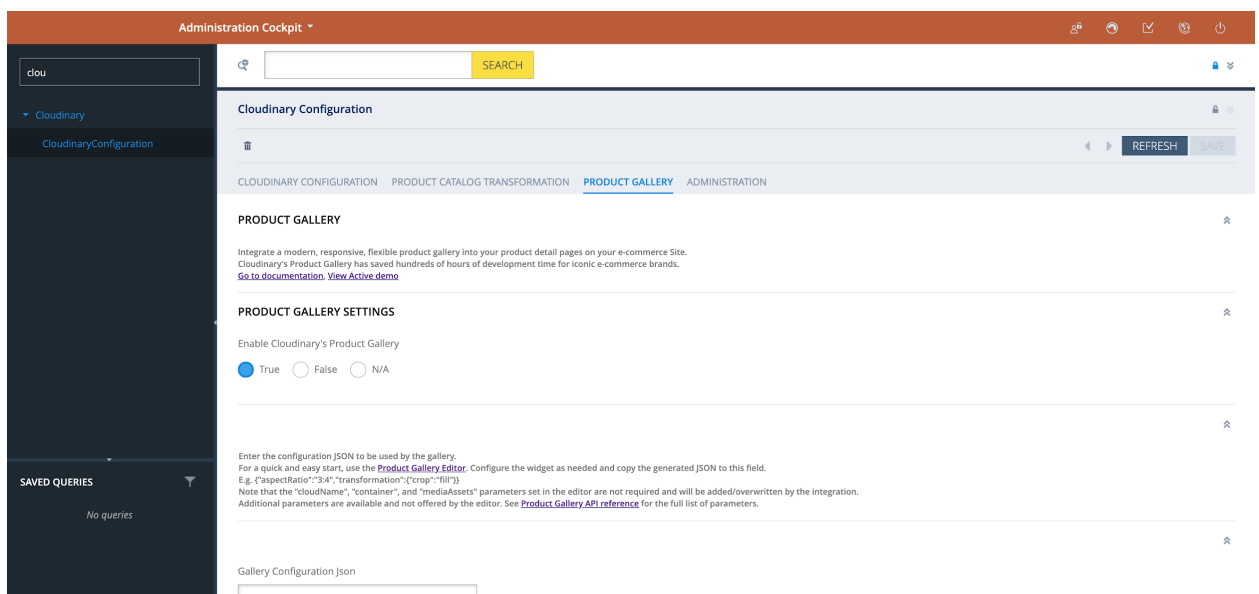
Cloudinary Folder Path: syncTarget-folder

CLOUDINARY CONNECTION

Version: v1.0.4

Enable Cloudinary: ☒ True ☐ False

3. In the editor view, go to the “Product Gallery” Tab and set “Enable Cloudinary’s Product Gallery” to *true*.



Administration Cockpit

cloud

- Cloudinary
 - CloudinaryConfiguration

Product Gallery

Cloudinary Configuration | PRODUCT CATALOG TRANSFORMATION | PRODUCT GALLERY | ADMINISTRATION

PRODUCT GALLERY

Integrate a modern, responsive, flexible product gallery into your product detail pages on your e-commerce Site. Clouinary'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

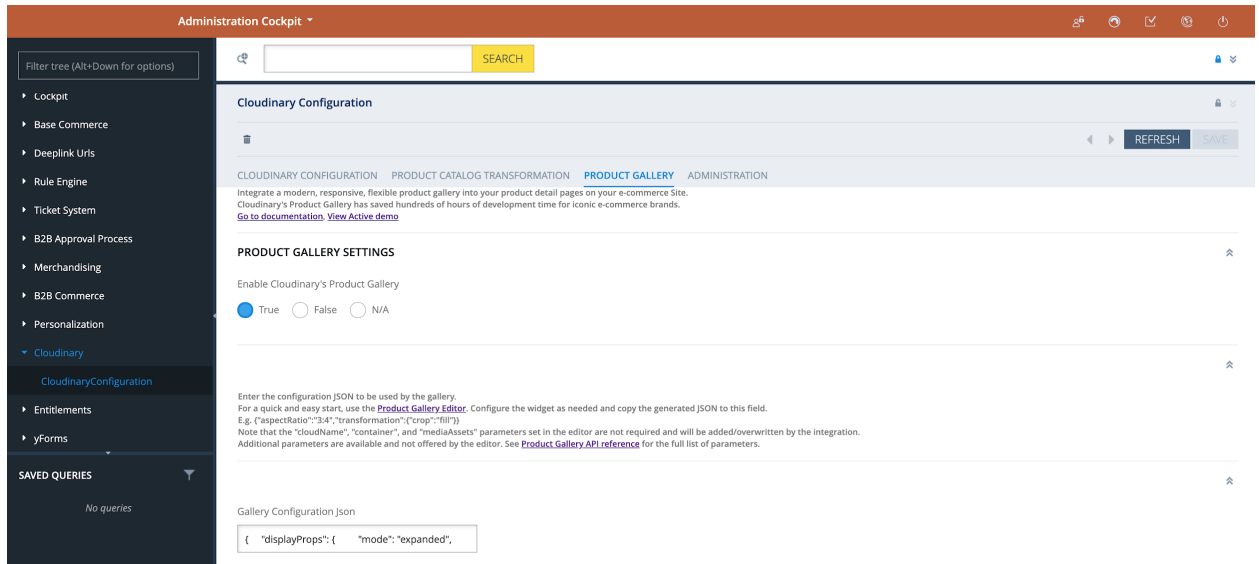
Enable Cloudinary's Product Gallery: ☒ True ☐ False ☐ N/A

Enter the configuration JSON to be used by the gallery. For a quick and easy start, use the [Product Gallery Editor](#). Configure the widget as needed and copy the generated JSON to this field. E.g. { "aspectRatio": "3:4", "transformation": { "crop": "fill" } }. Note that the "cloudName", "container", and "mediaAssets" 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 [Product Gallery API reference](#) for the full list of parameters.

Gallery Configuration json

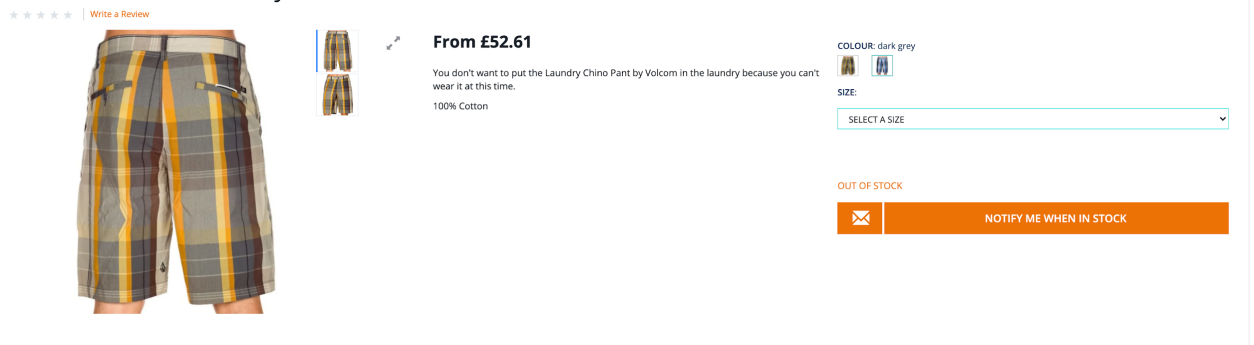
```
{ "cloudName": "clouinary", "mode": "expanded" }
```

- The Product Gallery can be customized using JSON. To do that, follow the guidelines in the Backoffice section (see below). You can open the [Product Gallery Editor](#), 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 [Clouinary Product Gallery guide](#).



- 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 Clouinary Product Gallery will be displayed and its appearance will reflect the setup done in the Product Gallery Editor.

Product review summary



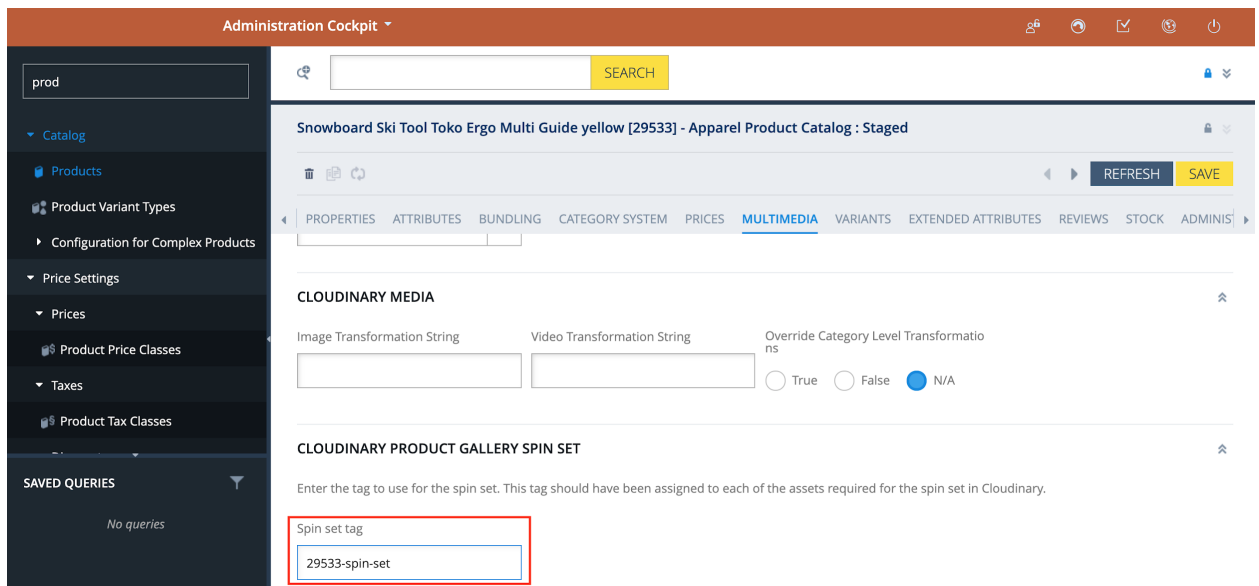
Display a Product 360 Spin Set

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 Clouinary account and they are all tagged with the same spin set tag. As per Clouinary's spin set functionality requirements, also make sure that all the assets are named in alphabetical order according to the desired sequence. The Clouinary 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 Clouinary [Product Gallery guide](#).

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 "Clouinary Product Gallery Spin Set" section.
3. Populate the *Spin Set Tag* field with the same tag used in your Clouinary account to identify the spin set assets for this product.



The screenshot shows the SAP Administration Cockpit interface. The left sidebar contains a navigation menu with options like 'prod', 'Catalog', 'Products', 'Product Variant Types', 'Price Settings', 'Prices', 'Product Price Classes', 'Taxes', and 'Product Tax Classes'. The main area displays the 'Snowboard Ski Tool Toko Ergo Multi Guide yellow [29533] - Apparel Product Catalog : Staged' page. The 'MULTIMEDIA' tab is selected, showing fields for 'Image Transformation String', 'Video Transformation String', and 'Override Category Level Transformations'. Below these, the 'CLOUDINARY PRODUCT GALLERY SPIN SET' section is visible, containing a text field labeled 'Spin set tag' with the value '29533-spin-set' entered. A red box highlights this field.

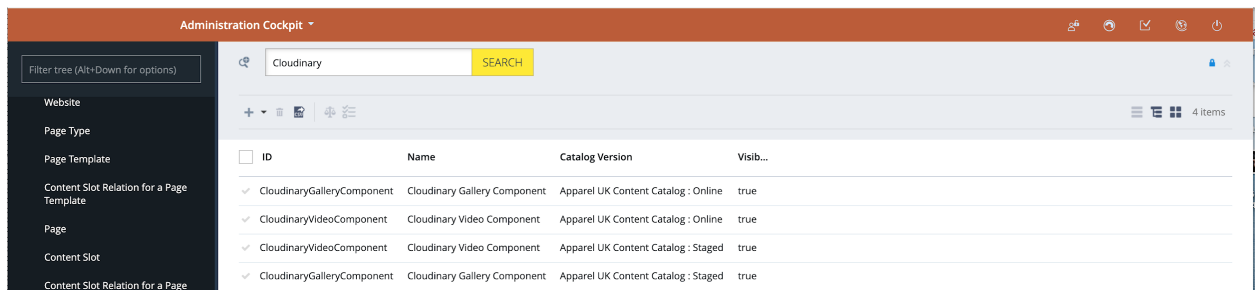
Clouidnary Video Component

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

Prepare the Clouidnary Video Component

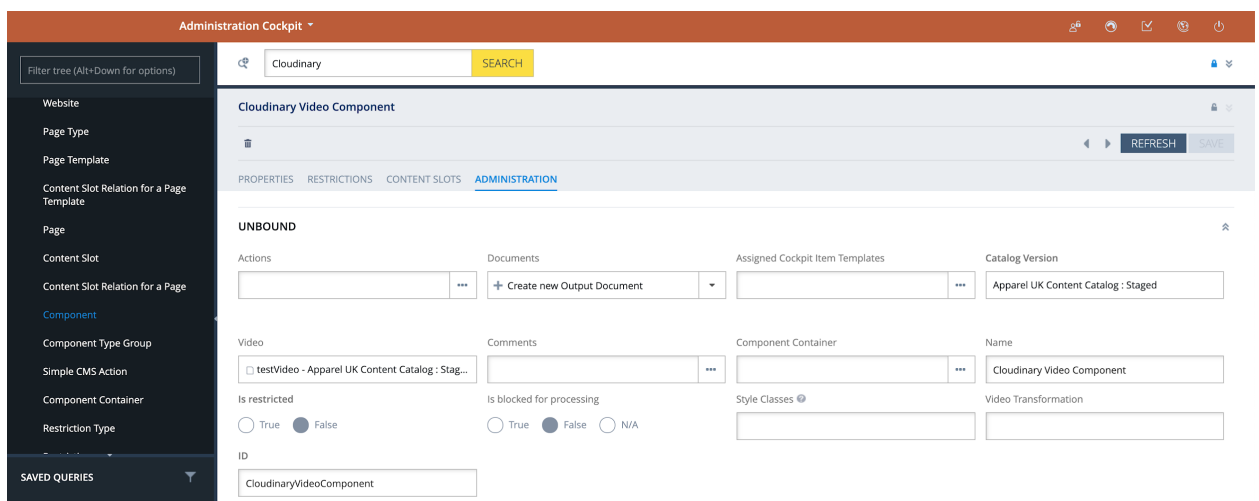
To enable the Clouidnary video player:

1. In SAP Backoffice, navigate to Multimedia > Media and create a new media via the media wizard to upload a video to Clouidnary. Select the staged catalog version and sync the media to the online one.
2. Navigate to WCMS > Components and search for “**ClouidnaryVideoComponent**”.



ID	Name	Catalog Version	Visib...
✓ ClouidnaryGalleryComponent	Clouidnary Gallery Component	Apparel UK Content Catalog : Online	true
✓ ClouidnaryVideoComponent	Clouidnary Video Component	Apparel UK Content Catalog : Online	true
✓ ClouidnaryVideoComponent	Clouidnary Video Component	Apparel UK Content Catalog : Staged	true
✓ ClouidnaryGalleryComponent	Clouidnary 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.



Clouidnary Video Component

PROPERTIES RESTRICTIONS CONTENT SLOTS ADMINISTRATION

UNBOUND

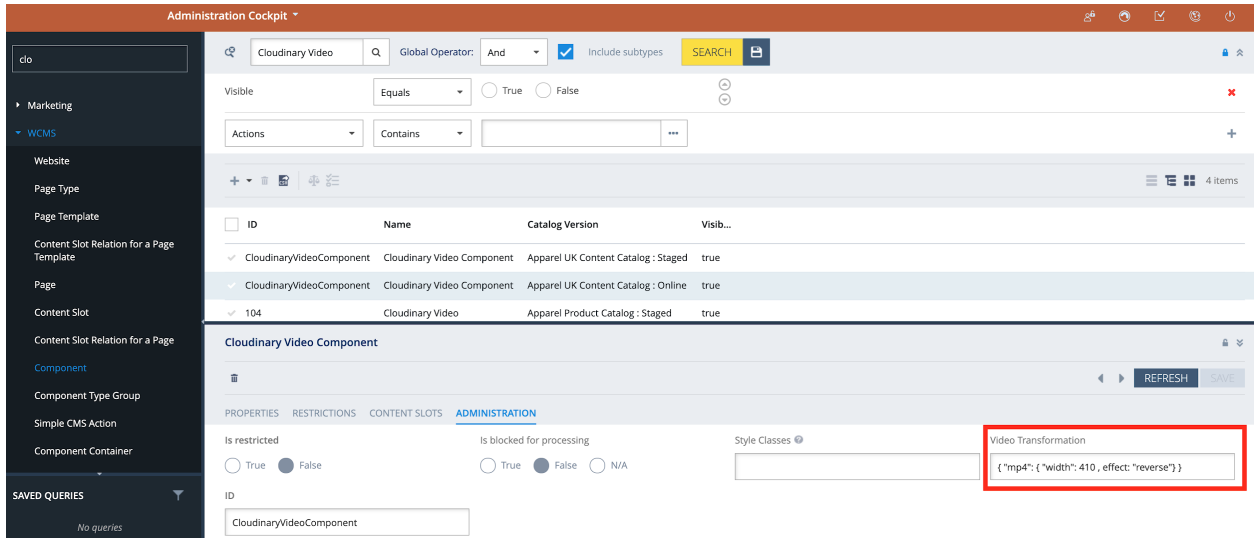
Actions: [] Documents: + Create new Output Document Assigned Cockpit Item Templates: [] Catalog Version: Apparel UK Content Catalog : Staged

Video: testVideo - Apparel UK Content Catalog : Stag... Comments: [] Component Container: [] Name: Clouidnary Video Component

Is restricted: ☐ True ☒ False Is blocked for processing: ☐ True ☒ False ☐ N/A Style Classes: [] Video Transformation: []

ID: ClouidnaryVideoComponent

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



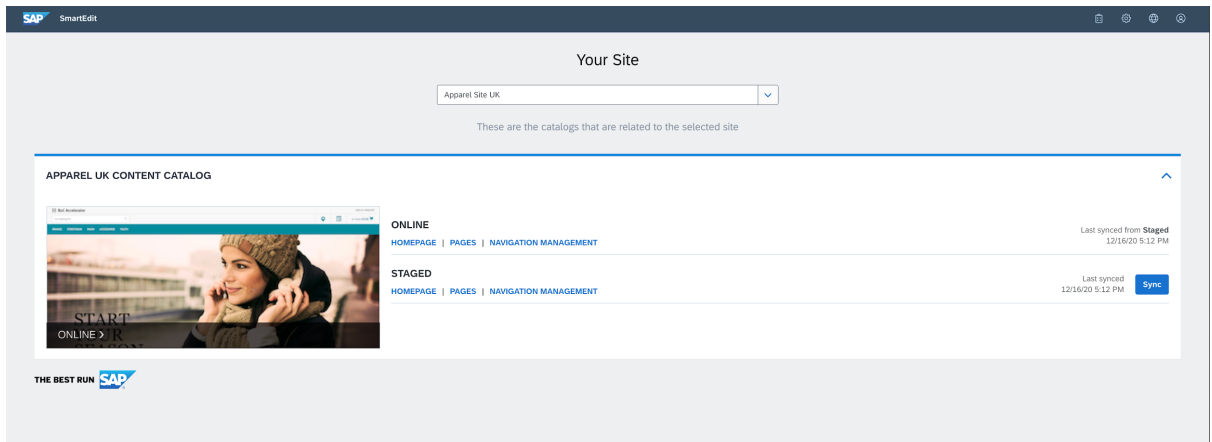
The screenshot shows the 'Administration Cockpit' for Cloudinary Video. On the left is a sidebar with navigation links. The main area displays a table of components. Below the table, the 'Cloudinary Video Component' is selected, and the 'ADMINISTRATION' tab is active. In the 'ADMINISTRATION' tab, the 'Video Transformation' field is highlighted with a red box and contains the JSON: `{"mp4": { "width": 410 , effect: "reverse" } }`.

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

Place the Cloudinary Video Component

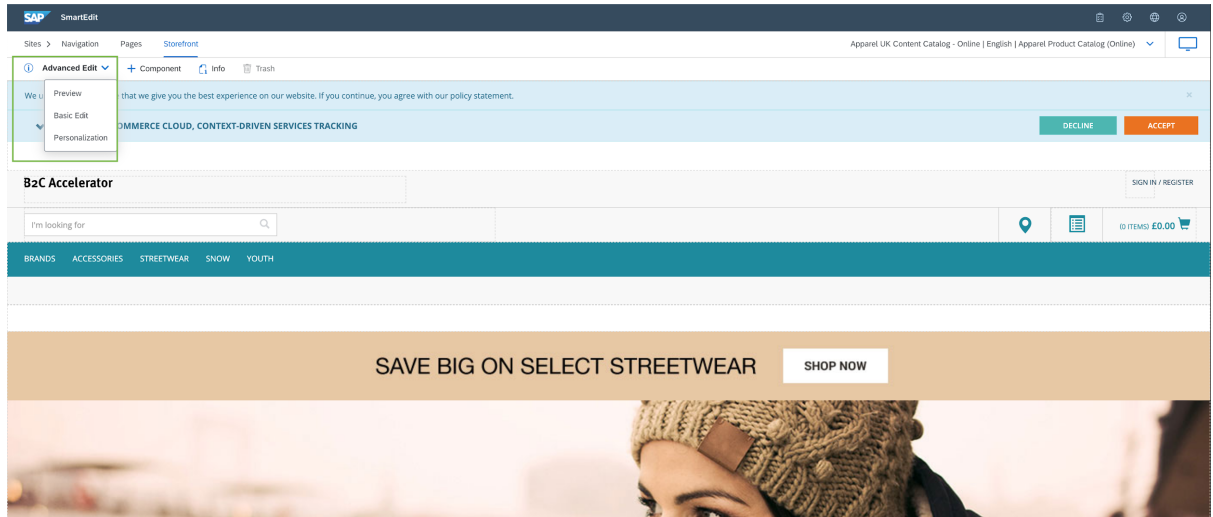
To place the Cloudinary Video component in a specific page:

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).

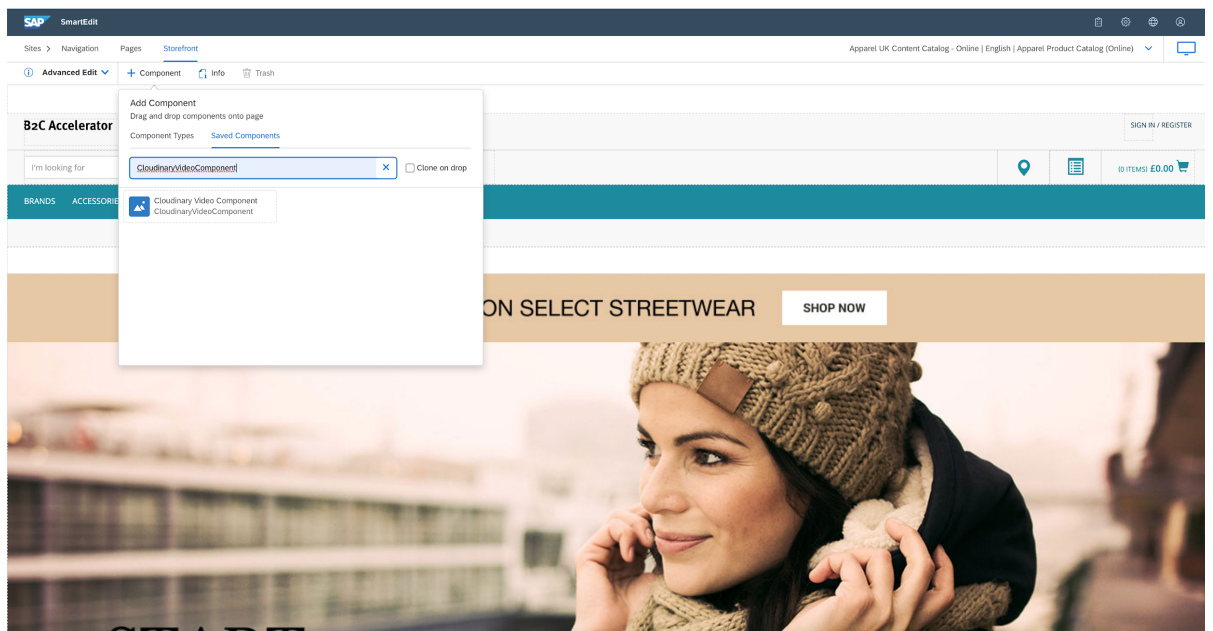


The screenshot shows the SAP SmartEdit interface. At the top, there's a 'Your Site' dropdown menu with 'Apparel Site UK' selected. Below this, there's a section titled 'APPAREL UK CONTENT CATALOG'. It shows two versions: 'ONLINE' and 'STAGED'. The 'ONLINE' version is the current live version, and the 'STAGED' version is a preview. Both versions have links for 'HOMEPAGE', 'PAGES', and 'NAVIGATION MANAGEMENT'. The 'STAGED' version has a 'Sync' button.

- Once the *Homepage* is loaded, make sure to switch to the “*Advanced Edit*” mode.



- Click the “**+ Component**” link at the top to add a component to the page.



- 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

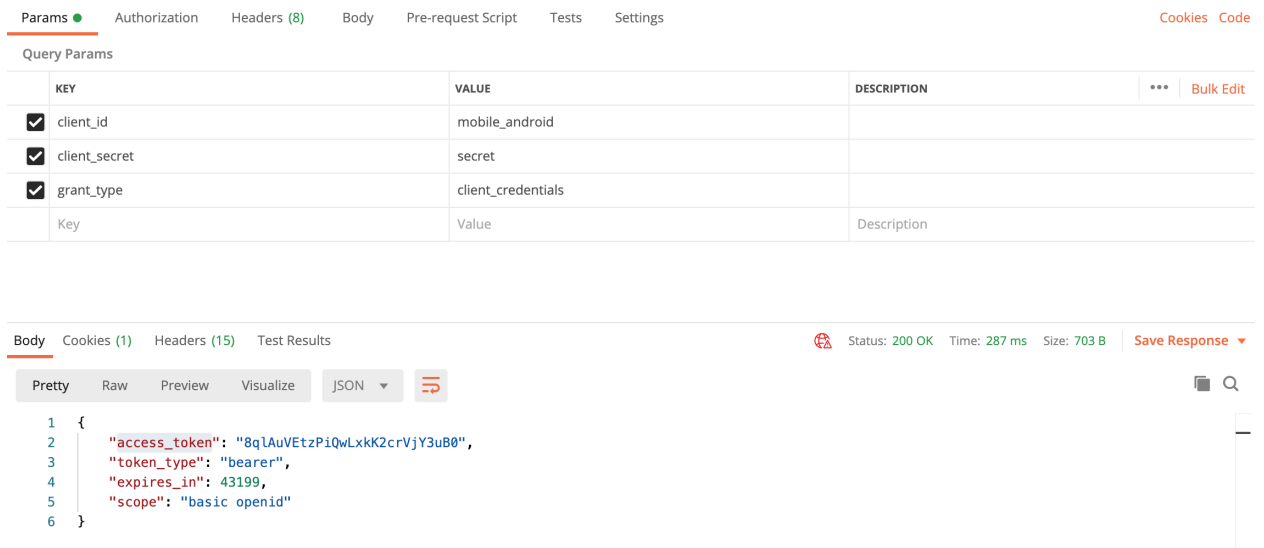
The bulk upload process aims to create media in SAP Commerce in bulk for the product catalog. Given assets uploaded in your Cloudinary account, you will be able to create SAP media and assign them with the Cloudinary assets. The bulk upload can be done either via Rest API or Hot Folder.

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 Get Request 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



The screenshot shows the Postman interface with the 'Params' tab selected. The query parameters are as follows:

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> client_id	mobile_android	
<input checked="" type="checkbox"/> client_secret	secret	
<input checked="" type="checkbox"/> grant_type	client_credentials	
Key	Value	Description

The 'Body' tab is also visible, showing the JSON response:

```
1 {
2   "access_token": "8q1AuVEtzPiQwLxkK2crVjY3uB0",
3   "token_type": "bearer",
4   "expires_in": 43199,
5   "scope": "basic openid"
6 }
```

At the top right, the status is 200 OK, Time: 287 ms, Size: 703 B. A 'Save Response' button is also present.

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":"<product_code>",
      "mediaContainers":[
        {
          "mediaContainerCode":"<media_container_code>",
          "publicId":"<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 Clouinary.
5. After a successful call, Media on the product will be set and will be tagged in Clouinary.
6. Media on the product can be verified in Backoffice and you can verify the tag in Clouinary.

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
```

2. 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.

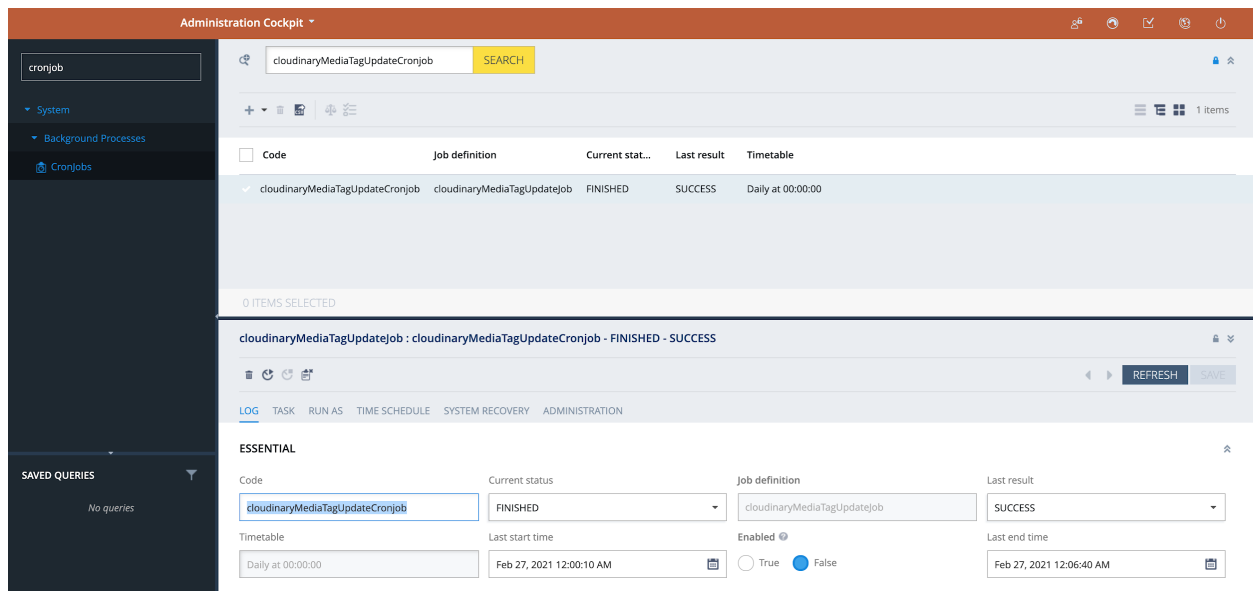
5. Search for product code form requests and verify gallery images.

Product Media Tag after Bulk Upload

After the bulk upload operation is complete, the assets in your Clouinary 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).



The screenshot displays the Clouinary Administration Cockpit interface. The left sidebar shows the navigation menu with 'Cronjobs' selected. The main area shows a search for 'cloudinaryMediaTagUpdateCronjob' with a 'SEARCH' button. Below the search bar, a table lists the cron jobs. The table has columns: Code, Job definition, Current stat..., Last result, and Timetable. The table contains one entry: 'cloudinaryMediaTagUpdateCronjob' with job definition 'cloudinaryMediaTagUpdateJob', status 'FINISHED', result 'SUCCESS', and timetable 'Daily at 00:00:00'. Below the table, there is a section for 'cloudinaryMediaTagUpdateJob : cloudinaryMediaTagUpdateCronjob - FINISHED - SUCCESS'. This section includes tabs for LOG, TASK, RUN AS, TIME SCHEDULE, SYSTEM RECOVERY, and ADMINISTRATION. The 'ADMINISTRATION' tab is active, showing an 'ESSENTIAL' section with fields for Code, Current status, Job definition, Last result, Timetable, Last start time, Enabled, and Last end time. The values are: Code: cloudinaryMediaTagUpdateCronjob, Current status: FINISHED, Job definition: cloudinaryMediaTagUpdateJob, Last result: SUCCESS, Timetable: Daily at 00:00:00, Last start time: Feb 27, 2021 12:00:10 AM, Enabled: False, Last end time: Feb 27, 2021 12:06:40 AM.

Code	Job definition	Current stat...	Last result	Timetable
cloudinaryMediaTagUpdateCronjob	cloudinaryMediaTagUpdateJob	FINISHED	SUCCESS	Daily at 00:00:00

cloudinaryMediaTagUpdateJob : cloudinaryMediaTagUpdateCronjob - FINISHED - SUCCESS

LOG TASK RUN AS TIME SCHEDULE SYSTEM RECOVERY ADMINISTRATION

ESSENTIAL

Code	Current status	Job definition	Last result
cloudinaryMediaTagUpdateCronjob	FINISHED	cloudinaryMediaTagUpdateJob	SUCCESS
Timetable	Last start time	Enabled	Last end time
Daily at 00:00:00	Feb 27, 2021 12:00:10 AM	False	Feb 27, 2021 12:06:40 AM

Clouinary Transformations

Clouinary 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 Clouinary 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.cloudinaryGlobalImageTransformation	Custom Transformation	Field to add Product Catalog image transformation.
CloudinaryConfig.cloudinaryGlobalVideoTransformation	Custom Transformation	Field to add Product Catalog video transformation.

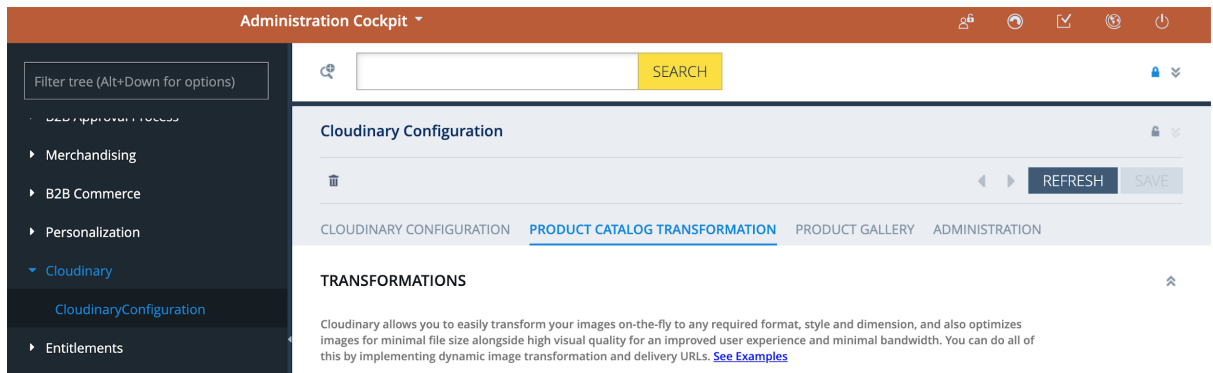
Where transformation strings are required in the forms, use URL syntax as defined in the [Transformation URL API guide](#). You can chain many transformations together, as explained [here](#).

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.

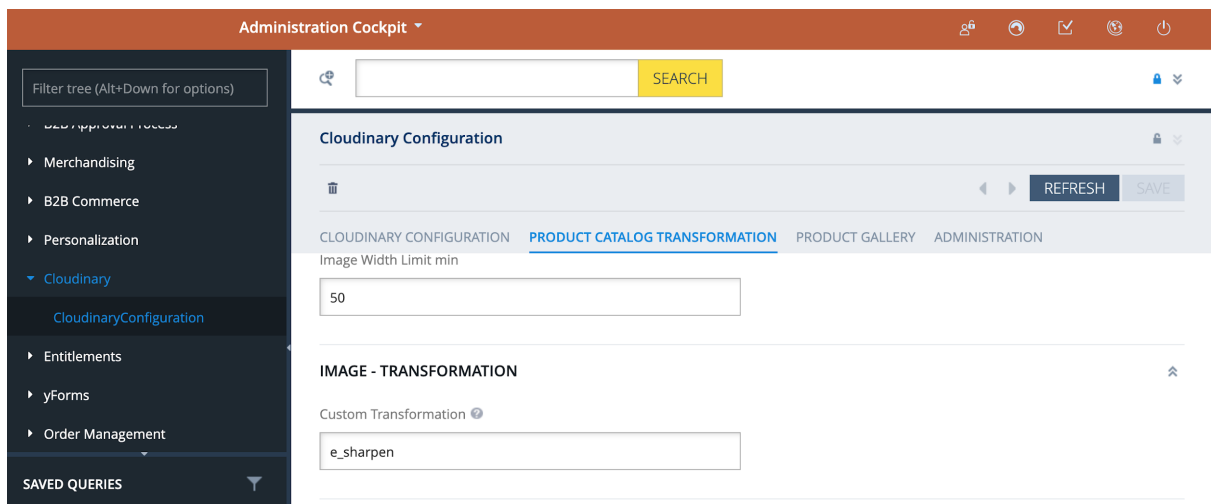
Apply Product Catalog Level Transformations

To apply Product Catalog transformations from Backoffice:

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

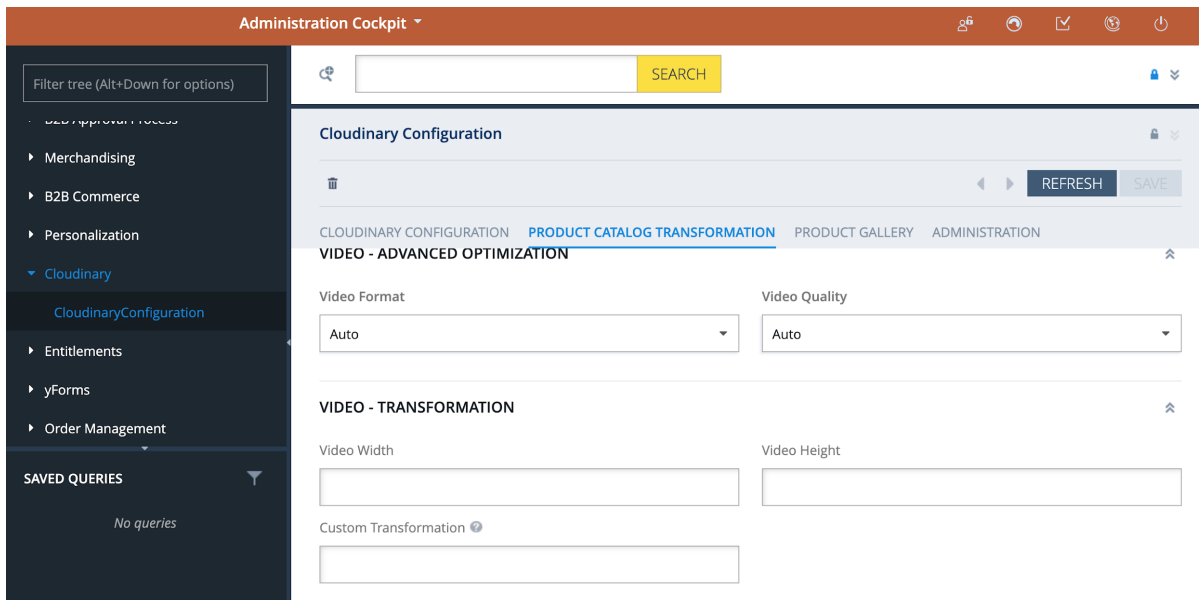


- To apply a transformation to all the *Product Catalog* images, scroll to the “IMAGE - TRANSFORMATION” section and provide the required image transformation string in the *Custom Transformation* field, e.g. “e_sharpen”.



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”.

- 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.

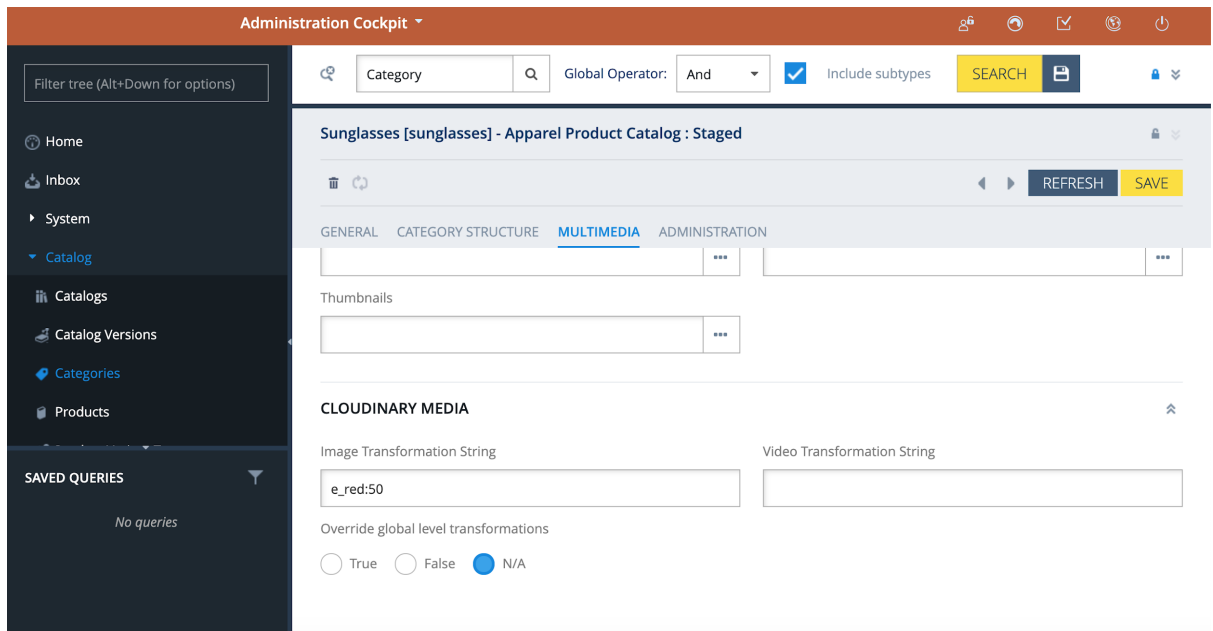


4. Save your changes for the transformations to be applied.

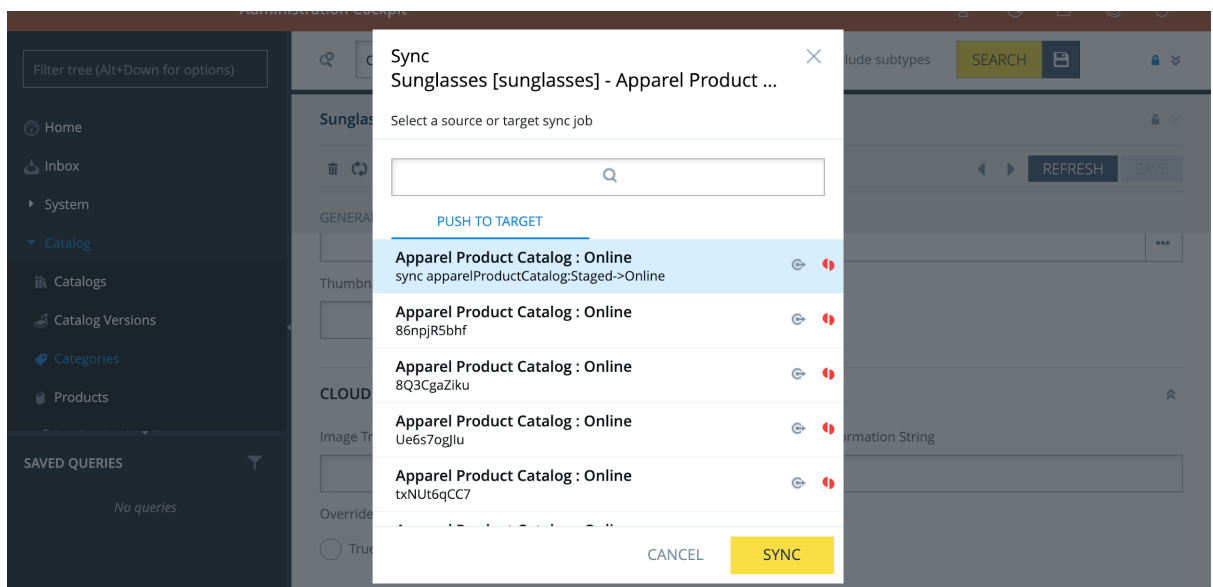
Apply Category Level Transformations

DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
Category.cloudinaryImageTransformation	Image Transformation	Field to add category level image transformation.
Category.cloudinaryVideoTransformation	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.
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 and chained with forward slashes for multiple transformations.



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.

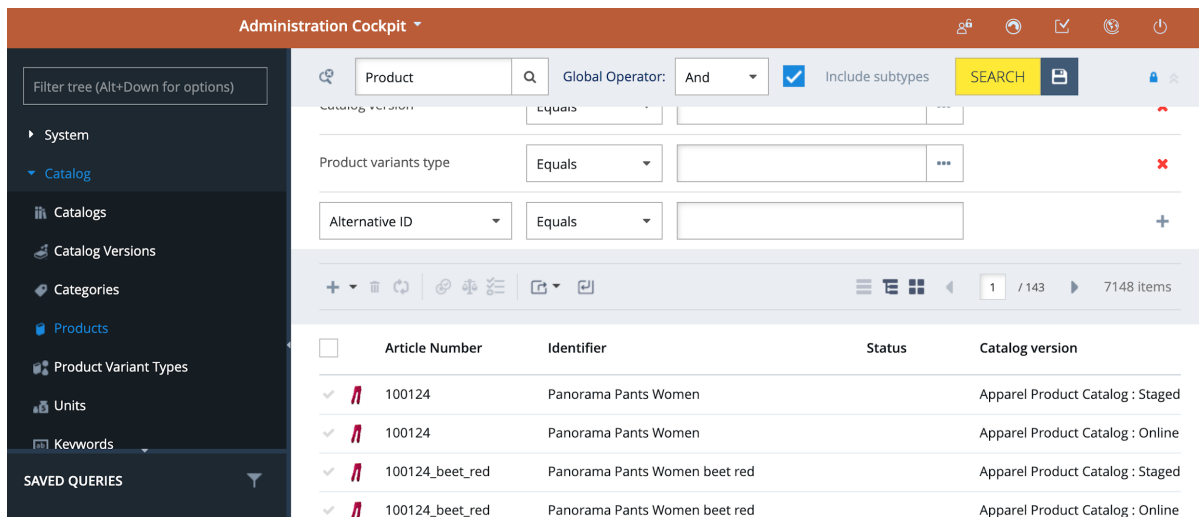


Note - When you apply category level transformations, ensure to run the full indexing job for the respective index for the transformations to be visible immediately, else the scheduled index job will pick up the changes as per the schedule.

Apply Product Level Transformations

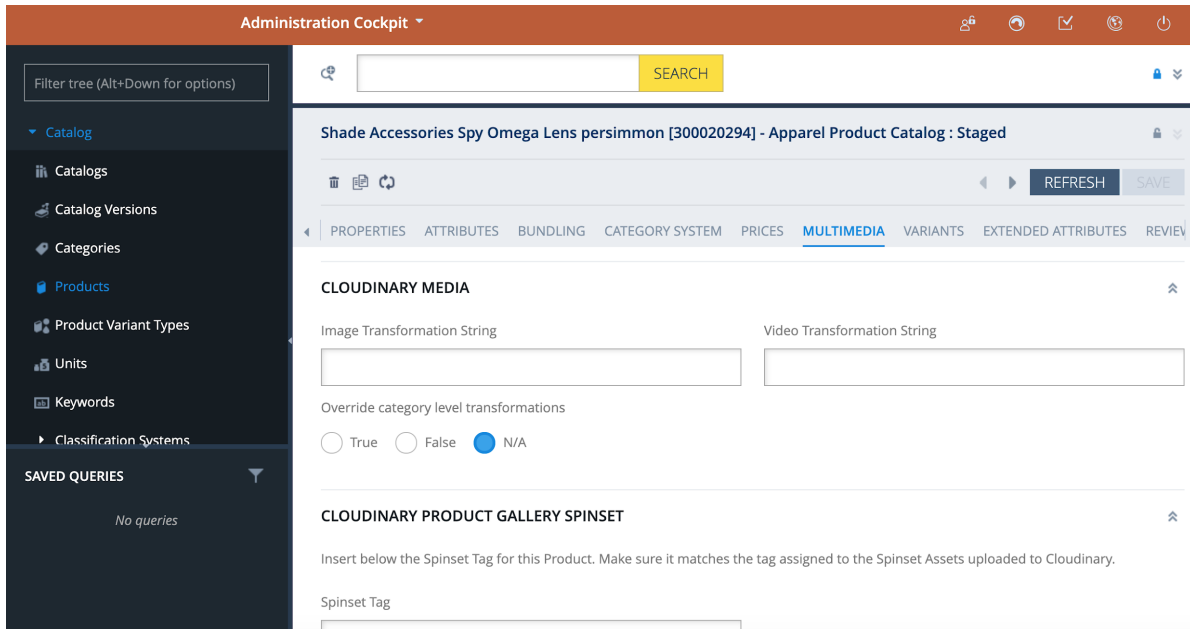
DataModel Attribute Name	Attribute Backoffice Label	Purpose of Attribute
Product.cloudinaryImageTransformation	Image Transformation	Field to add product level image transformation.
Product.cloudinaryVideoTransformation	Video Transformation	Field to add product level video transformation.
Product.isClouinaryOverride	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.



Article Number	Identifier	Status	Catalog version
100124	Panorama Pants Women	✓	Apparel Product Catalog : Staged
100124	Panorama Pants Women	✓	Apparel Product Catalog : Online
100124_beet_red	Panorama Pants Women beet red	✓	Apparel Product Catalog : Staged
100124_beet_red	Panorama Pants Women beet red	✓	Apparel Product Catalog : Online

2. Navigate to the “Multimedia” tab and scroll to the “Clouinary 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.



Administration Cockpit

Filter tree (Alt+Down for options)

- Catalog
 - Catalogs
 - Catalog Versions
 - Categories
 - Products
 - Product Variant Types
 - Units
 - Keywords
 - Classification Systems
- SAVED QUERIES
 - No queries

Shade Accessories Spy Omega Lens persimmon [300020294] - Apparel Product Catalog : Staged

REFRESH SAVE

PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES **MULTIMEDIA** VARIANTS EXTENDED ATTRIBUTES REVIEW

CLOUDINARY MEDIA

Image Transformation String Video Transformation String

Override category level transformations

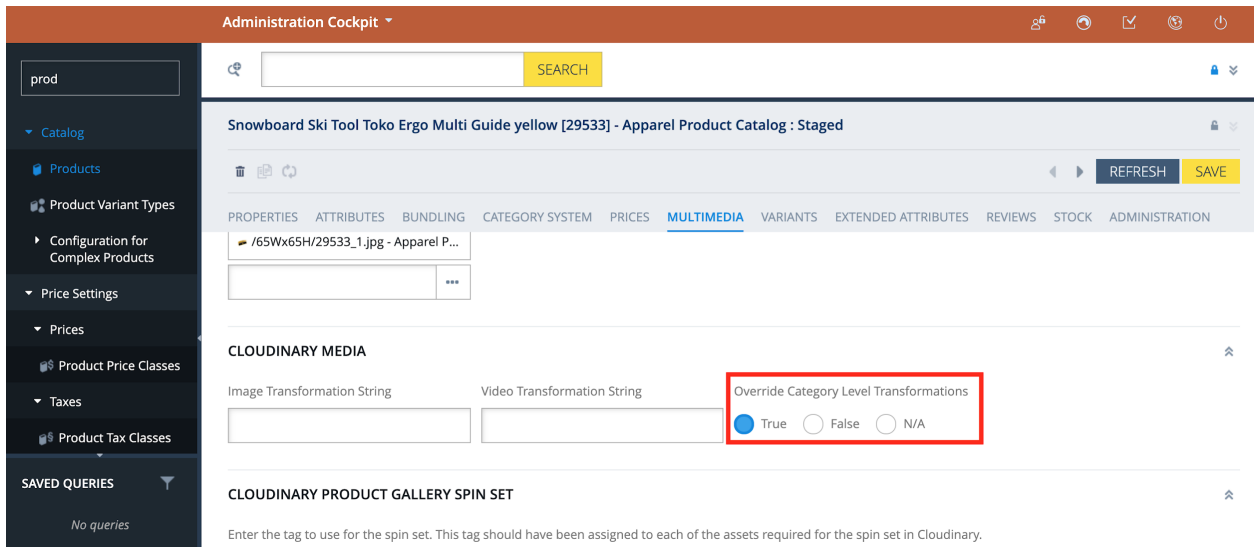
☐ True ☐ False ☒ N/A

CLOUDINARY PRODUCT GALLERY SPINSET

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

Spinset Tag

- To override the category level transformation applied, set the override category level transformation to “true”.



Administration Cockpit

prod

SEARCH

Snowboard Ski Tool Toko Ergo Multi Guide yellow [29533] - Apparel Product Catalog : Staged

REFRESH SAVE

PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES **MULTIMEDIA** VARIANTS EXTENDED ATTRIBUTES REVIEWS STOCK ADMINISTRATION

/65Wx65H/29533_1.jpg - Apparel P...

CLOUDINARY MEDIA

Image Transformation String Video Transformation String

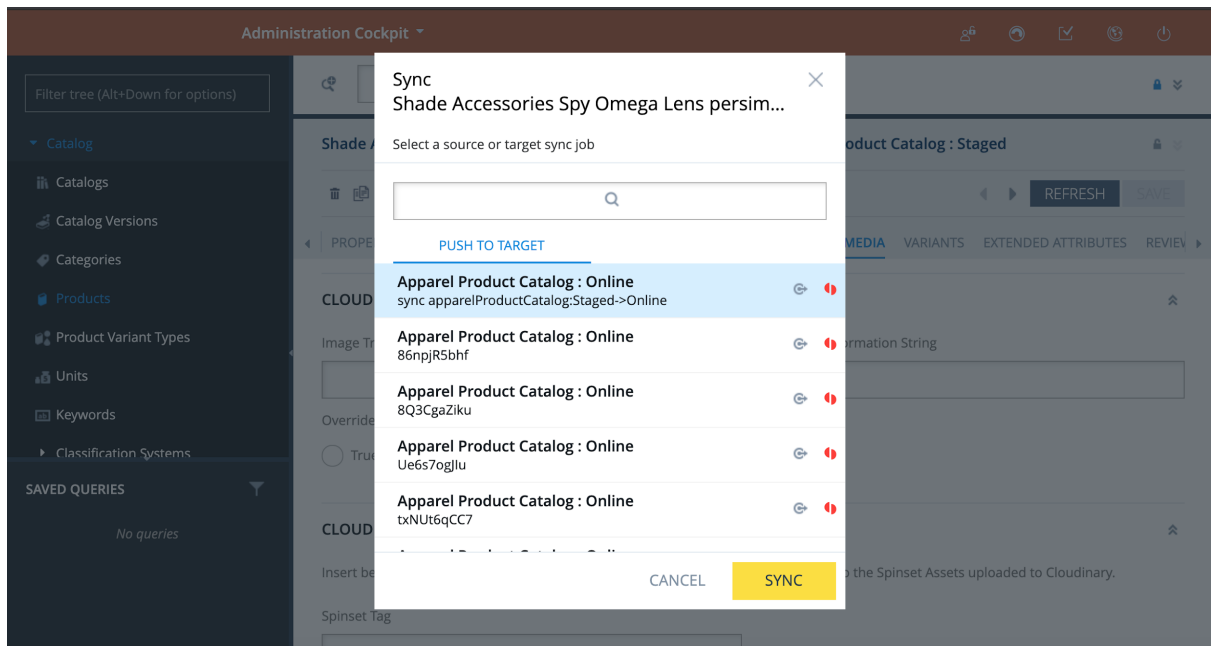
Override Category Level Transformations

☒ True ☐ False ☐ N/A

CLOUDINARY PRODUCT GALLERY SPIN SET

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 Clouinary.

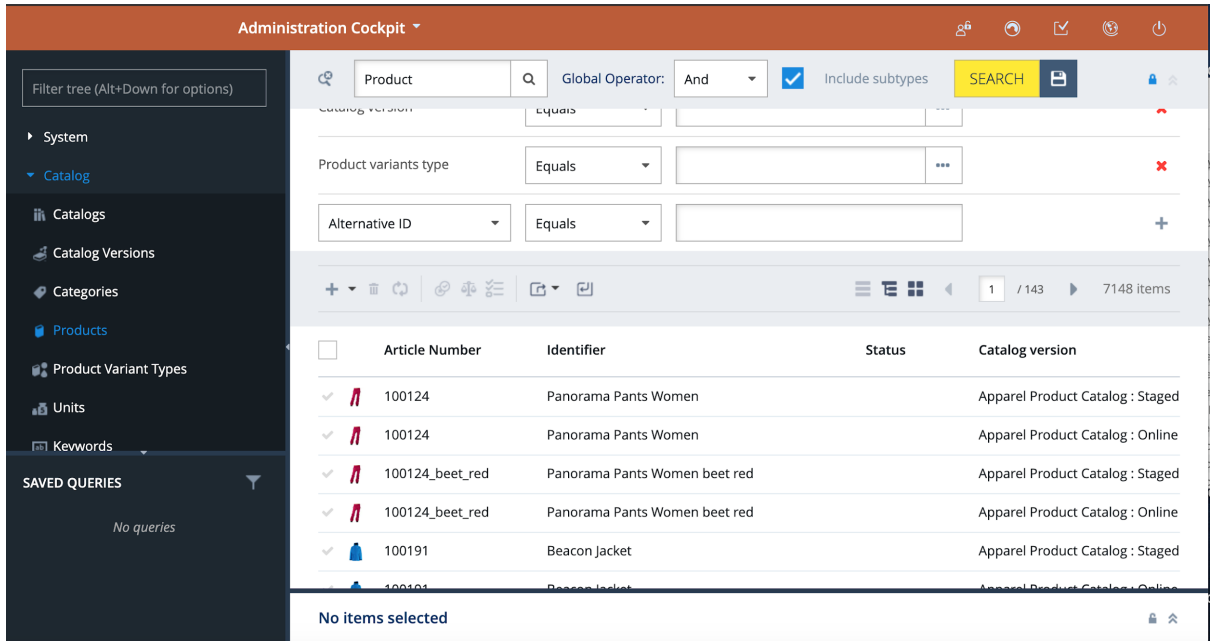
- Save the changes and click the sync icon at the top of the editor area to synchronize the changes from the staged to the online version of the catalog.



Apply Media Level Transformations

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

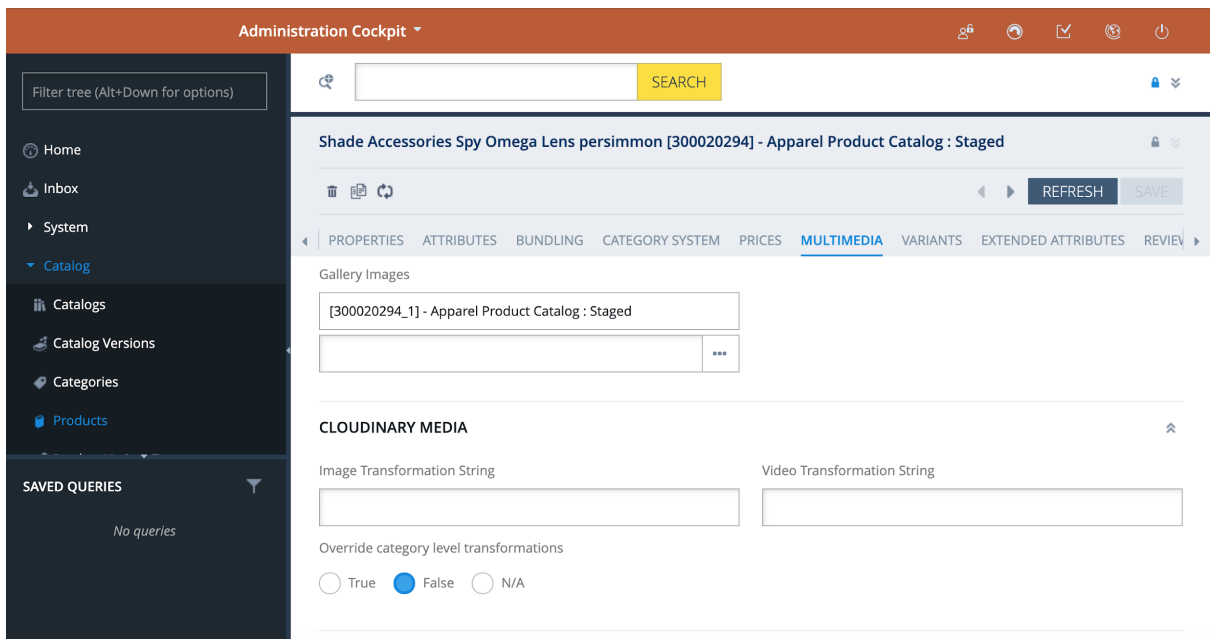
1. Log into Backoffice, navigate to Catalog > Products and search for the required product to apply the transformation on. Ensure that you select the staged catalog version of the product for which you want to apply the transformation on.



The screenshot shows the 'Administration Cockpit' interface. On the left is a sidebar with a 'Filter tree (Alt+Down for options)' and a list of navigation items: System, Catalog, Catalogs, Catalog Versions, Categories, Products, Product Variant Types, Units, and Keywords. Below these is a 'SAVED QUERIES' section with 'No queries'. The main area displays a search for 'Product' with a 'Global Operator: And' and a checked 'Include subtypes' option. The search results table has columns: Article Number, Identifier, Status, and Catalog version. The results show several items, including 'Panorama Pants Women' and 'Beacon Jacket', with their respective catalog versions. A 'No items selected' message is at the bottom.

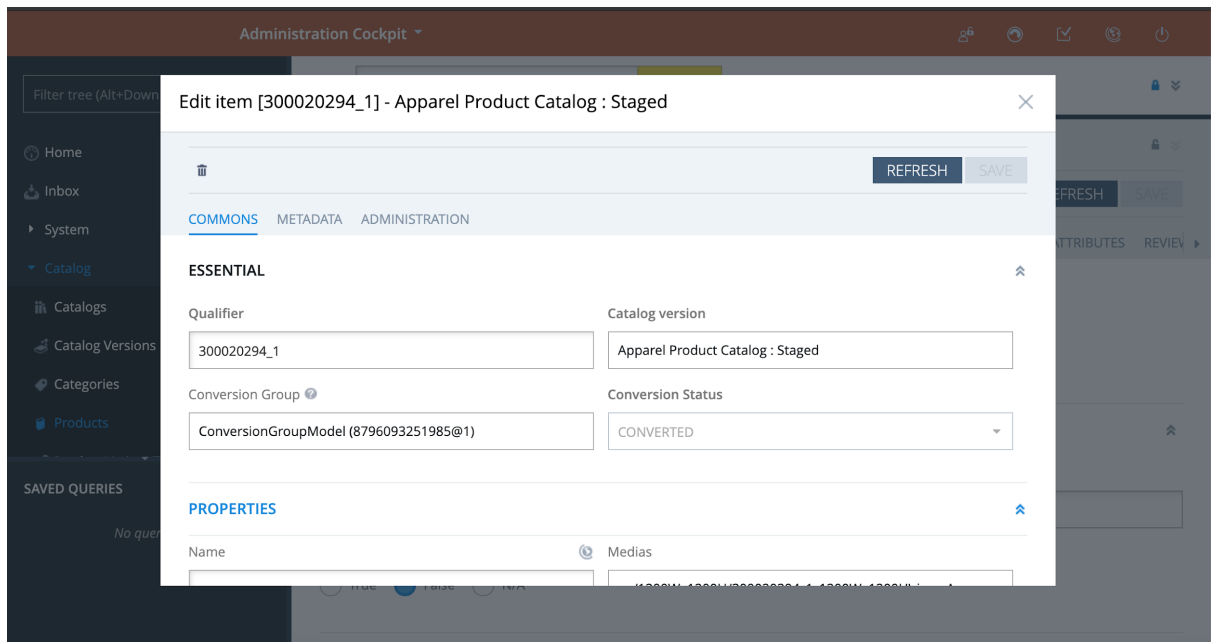
Article Number	Identifier	Status	Catalog version
100124	Panorama Pants Women	✓	Apparel Product Catalog : Staged
100124	Panorama Pants Women	✓	Apparel Product Catalog : Online
100124_beet_red	Panorama Pants Women beet red	✓	Apparel Product Catalog : Staged
100124_beet_red	Panorama Pants Women beet red	✓	Apparel Product Catalog : Online
100191	Beacon Jacket	✓	Apparel Product Catalog : Staged

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.



The screenshot shows the 'Administration Cockpit' interface with the 'Multimedia' tab selected. The main area displays the product 'Shade Accessories Spy Omega Lens persimmon [300020294] - Apparel Product Catalog : Staged'. Below the product name are tabs for PROPERTIES, ATTRIBUTES, BUNDLING, CATEGORY SYSTEM, PRICES, MULTIMEDIA, VARIANTS, EXTENDED ATTRIBUTES, and REVIEW. The 'MULTIMEDIA' tab is active, showing a 'Gallery Images' section with a dropdown menu containing '[300020294_1] - Apparel Product Catalog : Staged'. Below this is a 'CLOUDINARY MEDIA' section with fields for 'Image Transformation String' and 'Video Transformation String'. At the bottom, there is a section for 'Override category level transformations' with radio buttons for 'True', 'False' (selected), and 'N/A'.

- 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.



Administration Cockpit

Filter tree (Alt+Down)

Home
Inbox
System
Catalog
Catalogs
Catalog Versions
Categories
Products

SAVED QUERIES
No queries

Edit item [300020294_1] - Apparel Product Catalog : Staged

REFRESH SAVE

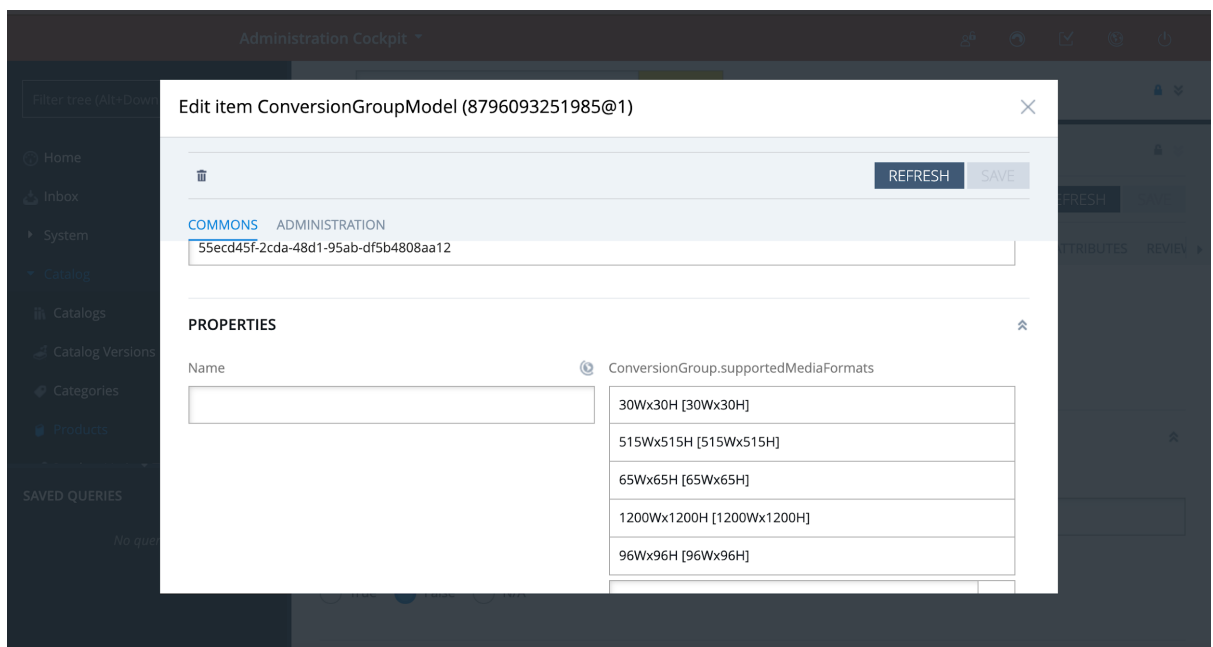
COMMONS METADATA ADMINISTRATION

ESSENTIAL

Qualifier: 300020294_1
Catalog version: Apparel Product Catalog : Staged
Conversion Group: ConversionGroupModel (8796093251985@1)
Conversion Status: CONVERTED

PROPERTIES

Name: Medias



Administration Cockpit

Filter tree (Alt+Down)

Home
Inbox
System
Catalog
Catalogs
Catalog Versions
Categories
Products

SAVED QUERIES
No queries

Edit item ConversionGroupModel (8796093251985@1)

REFRESH SAVE

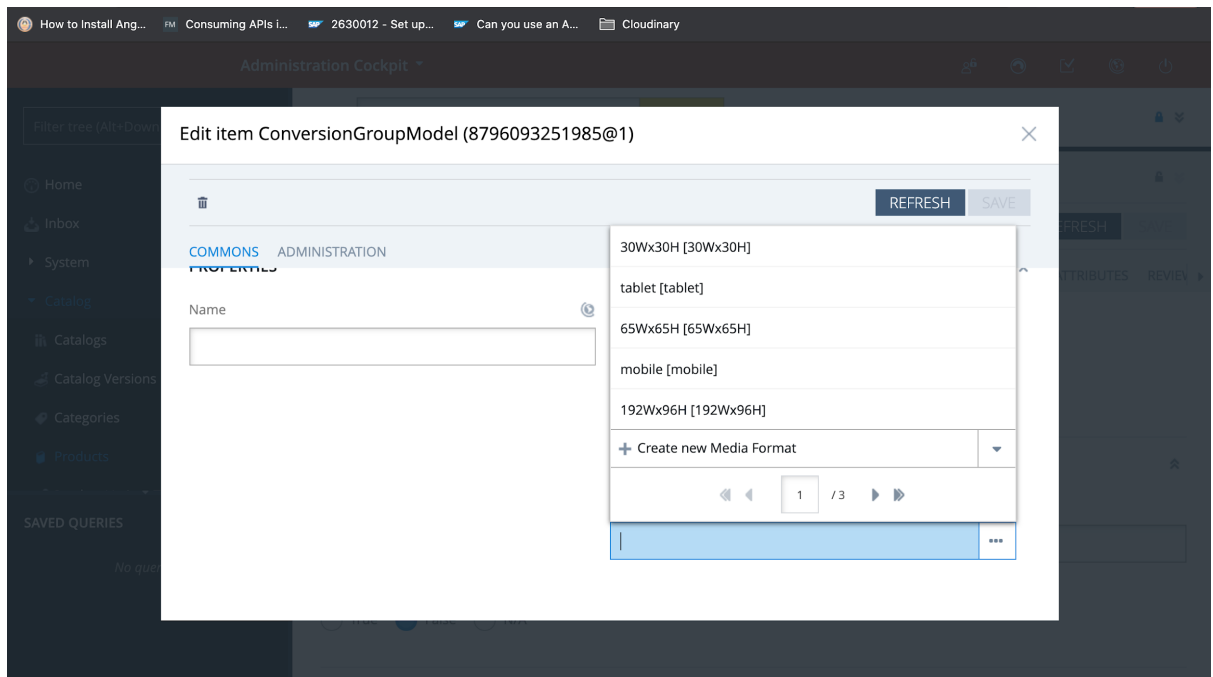
COMMONS ADMINISTRATION

55ecd45f-2cda-48d1-95ab-df5b4808aa12

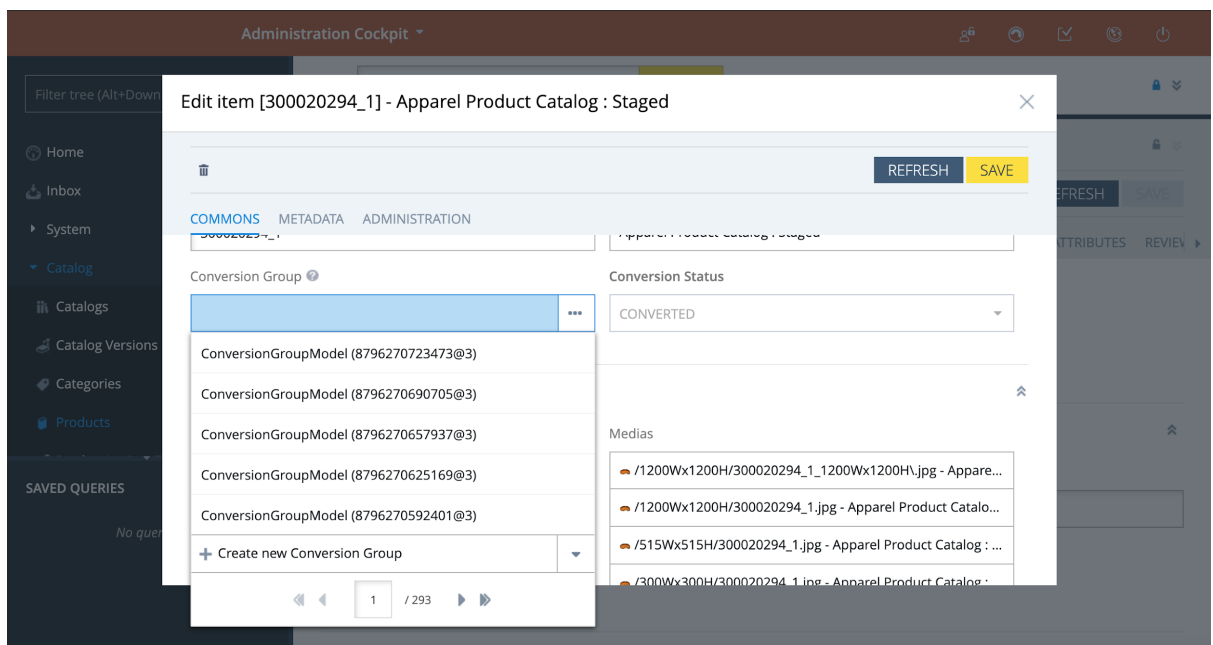
PROPERTIES

Name: ConversionGroup.supportedMediaFormats

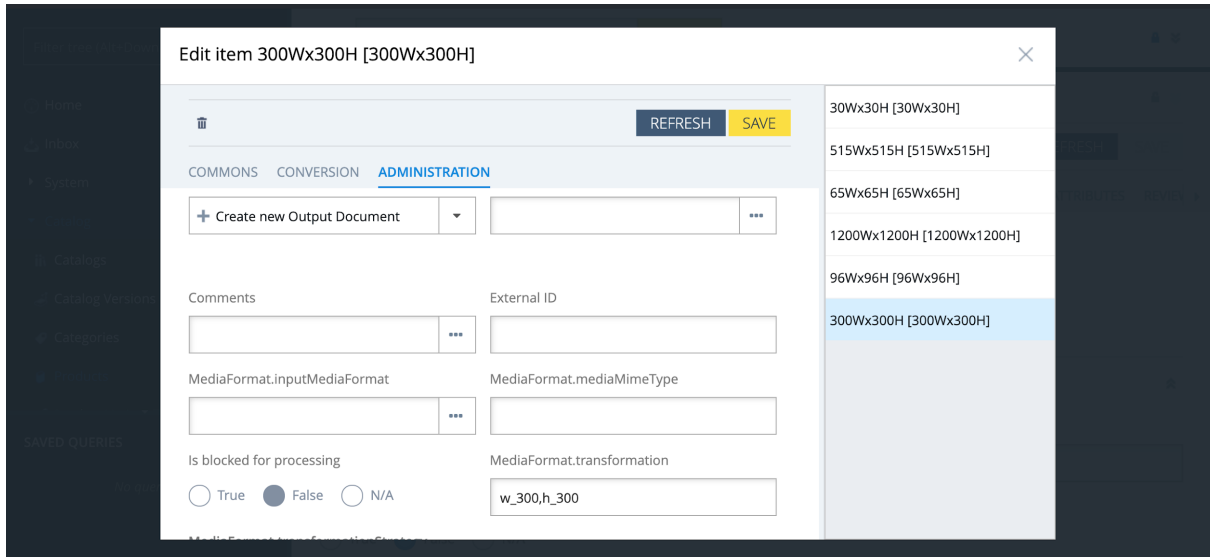
30Wx30H [30Wx30H]
515Wx515H [515Wx515H]
65Wx65H [65Wx65H]
1200Wx1200H [1200Wx1200H]
96Wx96H [96Wx96H]



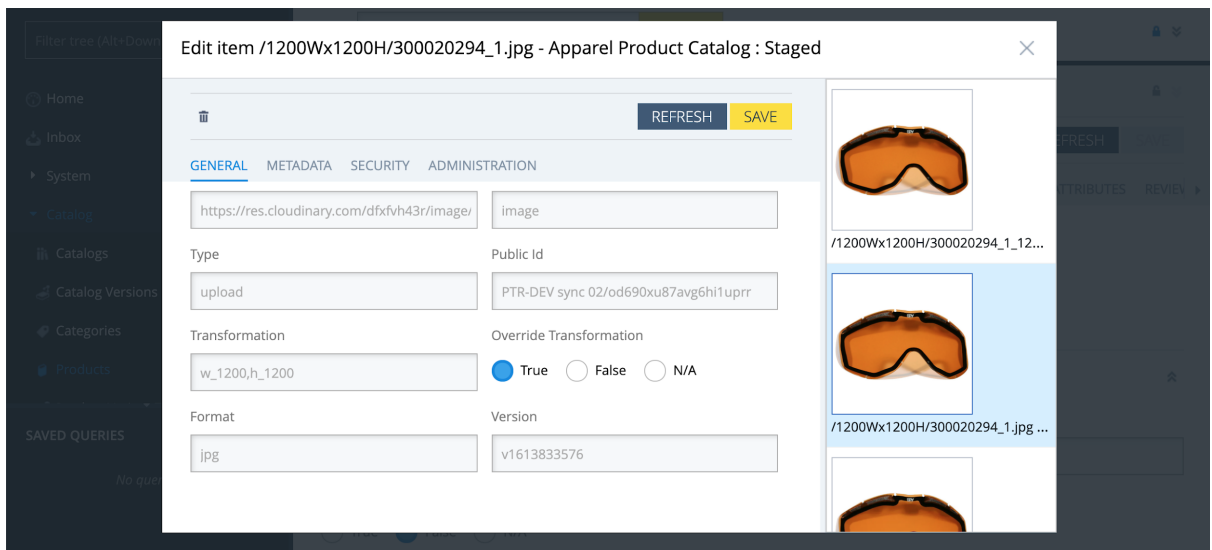
4. If not present, create a conversion group by clicking the “Conversion Group” field and adding the required conversion group supported media formats.



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



- 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.
- To override the product level transformation applied, navigate to the media entity which you want to override and set override transformation to "true".



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 Clouinary 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
CloudinaryMediaTransformationjob.catalogVersions	CloudinaryMediaTransformationjob.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.

Administration Cockpit

Filter tree (Alt+Down for options)

- Business Processes
- Background Processes
 - CronJobs
 - Jobs
 - Job Logs
 - Tasks
 - Task Conditions
 - Distributed Import

CronJob

Global Operator: And

Include subtypes

SEARCH

cloudinaryMediaTransformationJob : cloudinaryMediaTransformationCronJob - FINISHED - SUCCESS

LOG

TASK

RUN AS

TIME SCHEDULE

SYSTEM RECOVERY

ADMINISTRATION

ActiveCronJobHistory

Documents

+ Create new Output Document

Assigned Cockpit Item Templates

CloudinaryMediaTransformationJob.catalogVersions

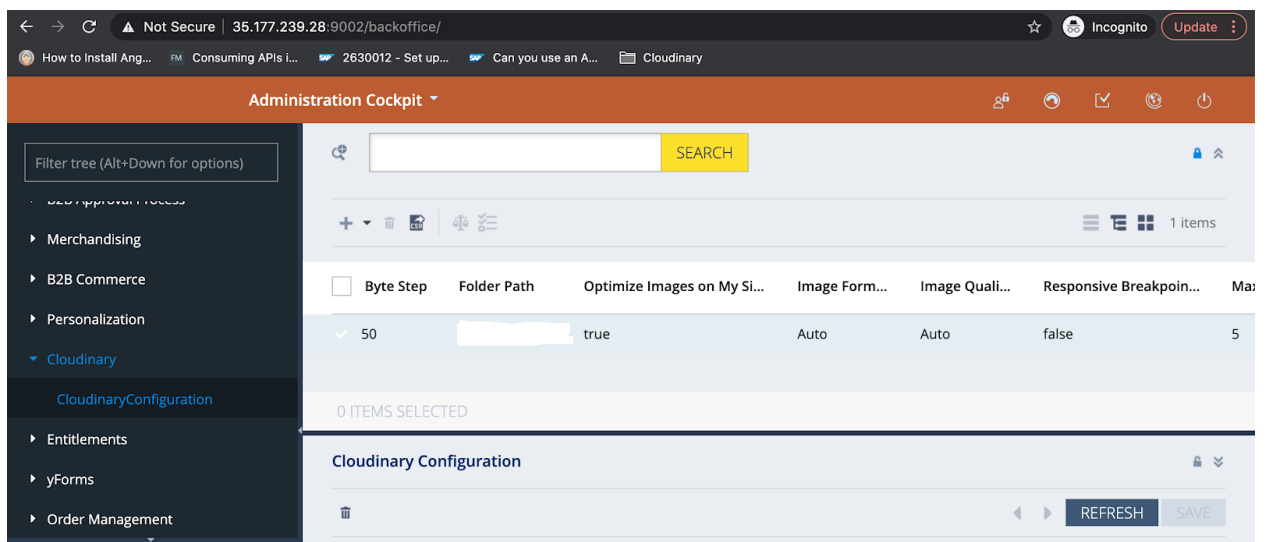
Responsive Breakpoints

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.

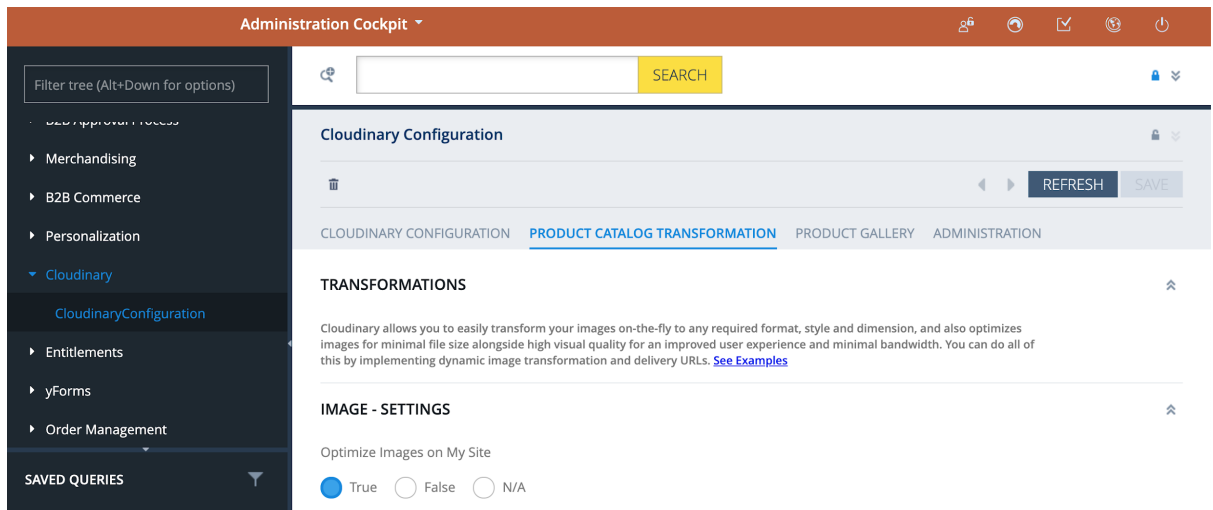
Responsive breakpoints are applied via the Cloudinary configuration wherein the user can configure custom breakpoints to be applied on images. By default, Cloudinary responsive breakpoints are enabled. Information on responsive images can be found in the Cloudinary [Responsive images](#) guide.

Follow these steps to configure responsive breakpoints:

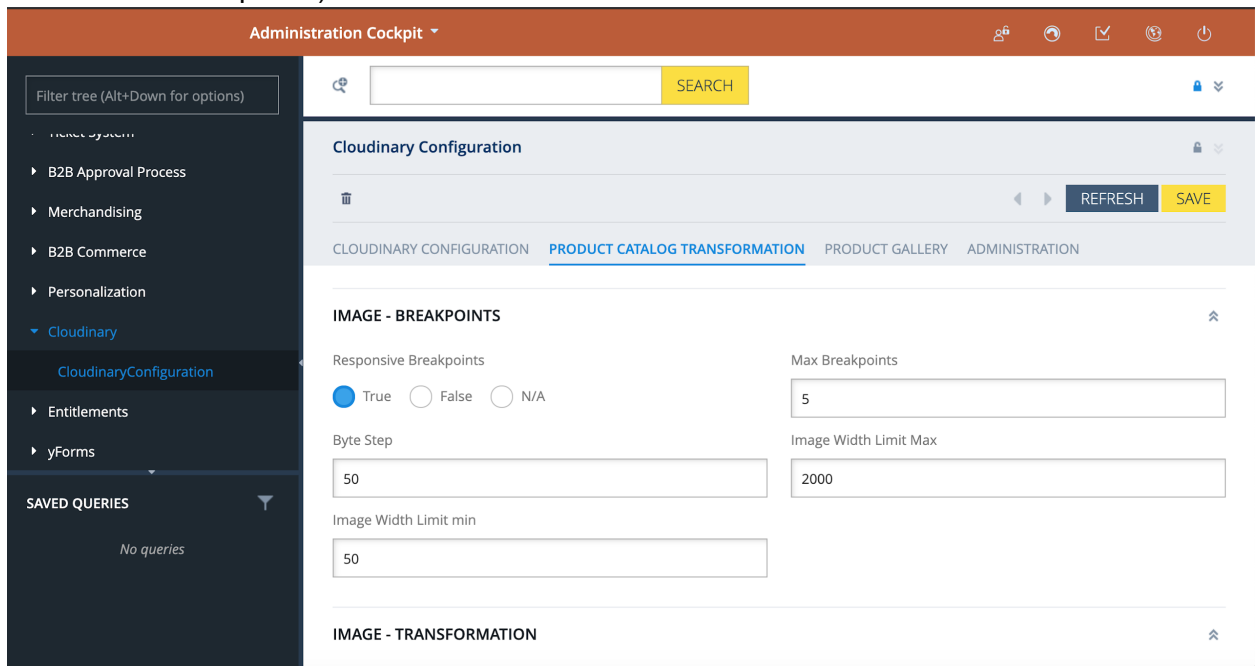
1. Log into Backoffice, navigate to Cloudinary > CloudinaryConfiguration and select the Cloudinary configuration.



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



3. 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).



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