

SAP COMMERCE CLOUDINARY EXTENSION SETUP GUIDE

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Introduction

The Cloudinary SAP Commerce Integration Setup Guide is for technical users who want to install the integration as part of their SAP Commerce system setup. The supported versions are from 1811 and later.

Pre-requisites

- JAVA 11
- MySQL 5.7
- SAP Commerce Suite 1811 or later
- MySQL DB driver

Prerequisites for Spartacus Storefront

- Angular CLI:9.1 or later, <10.0.
- Node.js:10.14.1 or later, <13.0. The most recent 12.x version is recommended.
- yarn :1.15 or later



B2C Accelerator and Spartacus Setup Steps

Follow the steps below if you are installing the extensions on a new system and don't have any existing SAP Commerce setup.

Download and Extract

To install the CX suite on your machine, follow these steps.

For CX Commerce 2005 Local Environment Setup, use the latest 2005 CX Commerce. This suite contains both CX Commerce and CEP extensions.

- 1. Obtain the hybris Commerce package
- 2. Extract the tar package in your chosen location (e.g. /home/user/ and rename it as cloudinary).

Clone Repository

To clone the Cloudinary repository you need to have GitHub repository access.

Clone the repository to the custom ({your sap cx base directory}/bin/custom) folder from this GitHub link, and switch to the development branch:

https://github.com/cloudinary/cloudinary_sap_commerce.git

Ask your admin for access if required.

git clone https://github.com/cloudinary/cloudinary_sap_commerce.git custom

Create Symlink

Change directory to {your sap cx base directory}/hybris and execute this command:

In -s {your sap cx base directory}/bin/custom/ext-config config

For windows:

mklink /D [Destination] [Original source]



Deploy the JDBC JAR

In order to install the connector:

- 1. Download <u>mysql-connector-java-5.1.37-bin.jar</u>
- 2. Open a File Explorer.
- 3. Copy mysql-connector-java-5.1.37-bin.jar to /home/user/cloudinary/hybris/bin/platform/lib/dbdriver.

Create database and user

Connect to your local MySQL installation and create a database (it'll be populated during initialize) and a user:

CREATE DATABASE cloudinary CHARACTER SET=utf8 COLLATE=utf8_bin;

CREATE USER 'cloudinary'@'localhost' IDENTIFIED BY 'cloudinary'; GRANT ALL PRIVILEGES ON cloudinary.* TO 'cloudinary'@'localhost' WITH GRANT OPTION; flush privileges;

Install Recipe

A Cloudinary recipe is required for installing and initializing required Cloudinary extensions and configuration.

Copy cloudinary_b2c.zip from *{your sap cx base directory}/*recipes and extract it to your local CX commerce recipes folder.

Open a command line and go to the "installer" directory of your SAP Commerce instance.

Execute the following commands to install and initialize the recipe:

- On Windows: install.bat -r cloudinary_b2c
- On Linux or Mac: ./install.sh -r cloudinary_b2c



Install Required Addon

ant addoninstall -Daddonnames="cmsoccaddon" -DaddonStorefront.ycommercewebservices="cloudinarymediawebservices"

Initialize SAP Commerce by entering the following command:

- On Windows: install.bat -r cloudinary initialize
- On Linux or Mac: ./install.sh -r cloudinary initialize

Follow the steps below if you are installing the extensions on an existing SAP Commerce system.

1. Add the following Cloudinary extensions to your localextensions.xml file:

```
<extension name=cmsoccaddon />
<extension name='mediaconversion' />
<extension name='mediaconversionbackoffice' />
<extension name='cloudinarymediacore' />
<extension name='cloudinarymediabackoffice' />
<extension name='cloudinarymediasmartedit' />
<extension name='cloudinarymediawebservices' />
<extension name='cloudinarymediafacades' />
<extension name='cloudinarymediaaddon' />
<extension name='spartacussampledataaddon' />
```

2. Install the required addons below in your platform directory:

```
ant addoninstall -Daddonnames="cmsoccaddon"
-DaddonStorefront.ycommercewebservices="cloudinarymediawebservices"
ant addoninstall -Daddonnames="cloudinarymediaaddon"
-DaddonStorefront.yacceleratorstorefront="<your custom b2c storefront>"
```

 In the cloudinarymediaaddon project.properties change the property from "yacceleratorstorefront.additionalWebSpringConfigs.cloudinarymediaaddon" to



<your custom b2c storefront extension>.additionalWebSpringConfigs.cloudinarymediaaddon

- 4. Execute a platform build using "ant clean all"
- 5. Perform a SAP Commerce system update

Start SAP Commerce Server

To perform this step, we use the Hybris Server, which is a pre-configured application server based on Apache Tomcat.

The hybris server has two modes of operation:

- Normal: Set by default for the hybris server.
- *Debug*: Only used with the develop configuration template (the one we chose earlier). The debug mode is slower in performance but is useful for developing using the external debugging tools (for example Eclipse IDE with compatible Java debugger).

To start the server, from the same terminal shell:

- 1. Navigate to the /bin/platform directory and run:
 - a. \$./hybrisserver.sh
 - b. If you need it in debug mode, run \$ hybrisserver.sh debug
- 2. The start-up is complete when the log displays a line such as Server Startup in XXXXms.
- 3. Open backoffice https://localhost:9002/backoffice/.
- 4. Navigate to Cloudinary > CloudinaryConfiguration and enable the Cloudinary connection (for more details refer to the SAP Commerce Cloudinary Extension Integration document, Cloudinary Configuration in the Backoffice section).
- 5. From Cronjobs, find and run the "cloudinaryMediaUploadSyncCronjob" cronjob in backoffice. Set the catalogVersion before running the job.
- 6. After completion, find and run the "cloudinaryMediaTagUpdateCronjob" cronjob in backoffice. Set catalogVersion for which you want to run the job.
- 7. Add **127.0.0.1** apparel-uk.local electronics.local in your host file entry.
- 8. Access apparel site using https://apparel-uk.local:9002/yacceleratorstorefront/en/.



Note - As a quick validation you can inspect a media from the storefront and verify that the source URL is pointing to Cloudinary.

Start Spartacus Storefront Application

To perform this step, we use the app Server, which is pre-configured and point your browser to https://loacalhost:4200

To start the server, from the terminal shell:

- 1. Navigate to the /bin/custom/spartacus/sapcloudinarystore.
- 2. From the same terminal window, run the command "yarn install" to install the dependencies.
- 3. And after successful compilation, run the "yarn start" command.
- 4. Access apparel spartacus storefront using http://localhost:4200/apparel-uk-spa/en/GBP/

B2B Accelerator Setup Steps

Follow the steps below if you are installing the extensions on a new system and don't have any existing SAP Commerce setup.

Download and Extract

To install CX suite on your machine, follow these steps:

For CX Commerce 2005 Local Environment Setup, use the latest 2005 CX Commerce.

This suite contains both CX Commerce and CEP extensions.

- 1. Obtain the hybris Commerce package
- 2. Extract the tar package in your chosen location (e.g. /home/user/ and rename it as cloudinary).



Clone Repository

To clone the Cloudinary repository you need to have GitHub repository access.

Clone the repository to the custom ({your sap cx base directory}/bin/custom) folder from https://github.com/cloudinary/cloudinary_sap_commerce.git and switch to the development branch.

Ask your admin for access if required.

git clone https://github.com/cloudinary/cloudinary_sap_commerce.git custom

Create Symlink

Change directory to *{your sap cx base directory}/hybris* and execute this command:

In -s {your sap cx base directory}/bin/custom/ext-config config

For windows:

mklink /D [Destination] [Original source]

Deploy the JDBC JAR

In order to install the connector:

- 1. Download the <u>mysql-connector-java-5.1.37-bin.jar</u>
- 2. Open a File Explorer.
- 3. Copy mysql-connector-java-5.1.37-bin.jar to /home/user/cloudinary/hybris/bin/platform/lib/dbdriver.

Create database and user

Connect to your local MySQL installation and create a database (it'll be populated during initialize) and a user:

CREATE DATABASE cloudinary CHARACTER SET=utf8 COLLATE=utf8_bin;



CREATE USER 'cloudinary'@'localhost' IDENTIFIED BY 'cloudinary'; GRANT ALL PRIVILEGES ON cloudinary.* TO 'cloudinary'@'localhost' WITH GRANT OPTION; flush privileges;

Install Recipe

A Cloudinary recipe is required for installing and initializing required Cloudinary extensions and configuration.

Copy cloudinary_b2b.zip from *{your sap cx base directory}/*recipes and extract it to your local CX commerce recipes folder

Open a command line and go to the "installer" directory of your SAP Commerce instance.

Execute the following commands to install and initialize the recipe:

- On Windows: install.bat -r cloudinary_b2b
- On Linux or Mac: ./install.sh -r cloudinary_b2b

Install Required Addon

ant addoninstall -Daddonnames="cmsoccaddon"

-DaddonStorefront.ycommercewebservices="cloudinarymediawebservices"

Initialize SAP Commerce by entering the following command:

- On Windows: install.bat -r cloudinary b2b initialize
- On Linux or Mac: ./install.sh -r cloudinary_b2b initialize

Follow the steps below if you are installing the extensions on an existing SAP Commerce system.

1. Add the following Cloudinary extensions to your localextensions.xml file:

<extension name=cmsoccaddon />



```
<extension name='mediaconversion' />
<extension name='mediaconversionbackoffice' />
<extension name='cloudinarymediacore' />
<extension name='cloudinarymediabackoffice' />
<extension name='cloudinarymediasmartedit' />
<extension name='cloudinarymediawebservices' />
<extension name='cloudinarymediafacades' />
<extension name='cloudinarymediab2baddon' />
```

2. Install the required addons below in your platform directory:

```
ant addoninstall -Daddonnames="cmsoccaddon"
-DaddonStorefront.ycommercewebservices="cloudinarymediawebservices"
ant addoninstall -Daddonnames="cloudinarymediab2baddon"
```

- -DaddonStorefront.yb2bacceleratorstorefront="<your custom b2b storefront>"
- 3. In the cloudinarymediaaddon project.properties change the property from "yb2bacceleratorstorefront.additionalWebSpringConfigs.cloudinarymediaaddon" to <your custom b2b storefront extension>.additionalWebSpringConfigs.cloudinarymediaaddon
- 4. Execute a platform build using "ant clean all".
- 5. Perform a SAP Commerce system update.

Start SAP Commerce Server

To perform this step, we use the Hybris Server, which is a pre-configured application server based on Apache Tomcat.

The hybris server has two modes of operation:

- Normal: Set by default for the hybris server.
- *Debug*: Only used with the develop configuration template (the one we chose earlier). The debug mode is slower in performance but is useful for developing using the external debugging tools (for example Eclipse IDE with compatible Java debugger).



To start the server, from the same terminal shell:

- 1. Navigate to the /bin/platform directory and run:
 - a. \$./hybrisserver.sh
 - b. If you need it in debug mode, run \$ hybrisserver.sh debug
- 2. The start-up is complete when the log displays a line such as Server Startup in XXXXms.
- 3. Open backoffice https://localhost:9002/backoffice/.
- 4. Navigate to Cloudinary > CloudinaryConfiguration and enable the Cloudinary connection (for more details refer to the SAP Commerce Cloudinary Extension Integration document, Cloudinary Configuration in Backoffice section).
- 5. Find and run the "cloudinaryMediaUploadSyncCronjob" cronjob in backoffice. Set the catalogVersion before running job.
- 6. After completion, find and run the "cloudinaryMediaTagUpdateCronjob" cronjob in backoffice. Set catalogVersion for which you want to run the job.
- 7. Add **127.0.0.1** powertools.local in your host file entry.
- 8. Access apparel site using https://powertools.local:9002/yb2bacceleratorstorefront/en/.

Note - As a quick validation you can inspect a media from the storefront and verify that the source URL is pointing to Cloudinary.



Uninstall SAP Commerce B2C Cloudinary Extension

Uninstall Extension

Follow the steps below if you are uninstalling the Cloudinary extensions from the SAP Commerce system.

1. Remove the following Cloudinary extensions from your localextensions.xml file:

```
<extension name=cmsoccaddon />
<extension name='mediaconversion' />
<extension name='mediaconversionbackoffice' />
<extension name='cloudinarymediacore' />
<extension name='cloudinarymediabackoffice' />
<extension name='cloudinarymediasmartedit' />
<extension name='cloudinarymediawebservices' />
<extension name='cloudinarymediafacades' />
<extension name='cloudinarymediaaddon' />
<extension name='spartacussampledataaddon' />
```

Note - "cmsoccaddon", "mediaconversion" and "mediaconversionbackoffice" are the OOB SAP Commerce extensions. We are enabling this extension as it is required to install Cloudinary extensions. However If it is required for an existing project as well then we should only remove Cloudinary extensions while uninstalling SAP Commerce B2C Clouldinary Extensions.

- 2. Execute a platform build using "ant clean all".
- 3. After successful build, execute initialization using "ant initialize" to clean up Cloudinary data.

Note - As part of the Initialization process, the OOB data will be created in the System, but if you still want to use Cloudinary media we should download all the originals from Cloudinary and import them in SAP.



Start SAP Commerce Server

To perform this step, we use the Hybris Server, which is a pre-configured application server based on Apache Tomcat.

The hybris server has two modes of operation:

- Normal: Set by default for the hybris server.
- *Debug*: Only used with the develop configuration template (the one we chose earlier). The debug mode is slower in performance but is useful for developing using the external debugging tools (for example Eclipse IDE with compatible Java debugger).

To start the server, from the same terminal shell:

- 1. Navigate to the /bin/platform directory and run:
- 2. The start-up is complete when the log displays a line such as Server Startup in XXXXms.
- 3. Add **127.0.0.1** apparel-uk.local electronics.local in your host file entry.
- 4. Access apparel site using https://apparel-uk.local:9002/yacceleratorstorefront/en/.

Note - As a quick validation you can inspect a media from the storefront and verify that the source URL is pointing to your local system not to Cloudinary.



Uninstall SAP Commerce B2B Cloudinary Extension

Uninstall Extension

Follow the steps below if you are uninstalling the Cloudinary extensions from SAP Commerce system.

1. Remove the following Cloudinary extensions from your localextensions.xml file:

```
<extension name=cmsoccaddon />
<extension name='mediaconversion' />
<extension name='mediaconversionbackoffice' />
<extension name='cloudinarymediacore' />
<extension name='cloudinarymediabackoffice' />
<extension name='cloudinarymediasmartedit' />
<extension name='cloudinarymediawebservices' />
<extension name='cloudinarymediafacades' />
<extension name='cloudinarymediab2baddon' />
```

Note - "cmsoccaddon", "mediaconversion" and "mediaconversionbackoffice" are the OOB SAP Commerce extensions. We are enabling this extension as it is required to install Cloudinary extensions. However If it is required for an existing project as well then we should only remove Cloudinary extensions while uninstalling SAP Commerce B2B Clouldinary Extensions.

- 2. Execute a platform build using "ant clean all".
- 3. After successful build, execute initialization using "ant initialize" to cleanup Cloudinary Data.

Note - As part of Initialization process, the OOB data will be created in System, but if you still want to use the Cloudinary media you should download all the originals from Cloudinary and import them in SAP.



Start SAP Commerce Server

To perform this step, we use the Hybris Server, which is a pre-configured application server based on Apache Tomcat.

The hybris server has two modes of operation:

- Normal: Set by default for the hybris server.
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To start the server, from the same terminal shell:

- 1. Navigate to the /bin/platform directory and run:
- 2. The start-up is complete when the log displays a line such as Server Startup in XXXXms.
- 3. Add **127.0.0.1** powertools.local in your host file entry.
- 4. Access apparel site using https://powertools.local:9002/yb2bacceleratorstorefront/en/.

Note - As a quick validation you can inspect a media from the storefront and verify that the source URL is pointing to your local system not to Cloudinary.