

# Extension for SAP Hybris: Installation and Setup Guide

## Amplience Extension 2.0.0 for SAP® Hybris® Commerce

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## Introduction

These are the steps required to install Hybris Commerce Suite 6.5 with the Amplience Extension on a local system using the default embedded HSQLDB and an embedded Solr index.

These steps assume that you are using the SAP Hybris Accelerator Apparel Store responsive storefront with the turnkey `hybrisext` Amplience account. See the following sections on how to setup your own Amplience account.

## Conventions

Where there are differences in the commands to be executed on Windows and Linux/Mac these are shown separately.

## Prerequisites

1. Hybris Commerce Suite 6.5
2. Amplience Extension 2.0.0 for SAP® Hybris® Commerce
3. Java 8

## Installation Steps

1. Create a new folder for the project.
2. Unzip Hybris Commerce Suite 6.5 into the project folder.
3. Unzip Amplience Extension 2.0.0 for SAP® Hybris® Commerce into the project folder.



Note that the Amplience extensions live in the `hybris/bin/ext-amplience` path under the project folder.

4. Open a command window on the project folder and navigate to the `hybris/bin/platform` folder:

```
// WINDOWS
cd hybris\bin\platform

// LINUX / MAC
cd hybris/bin/platform
```

5. Setup the Hybris ant build environment by running this command:

```
// WINDOWS
setantenv.bat

// LINUX / MAC
. ./setantenv.sh
```

6. Run ant to create the default Hybris configuration.

```
ant
```

- a. When prompted to select the configuration template to use press `Enter` to select the default develop template.

7. Edit the Hybris configuration file `hybris/config/local.properties` and replace the contents with the following:

```
commerceservices.default.desktop.ui.experience=responsive
uiexperience.level.supported=DESKTOP
```

8. Edit the Hybris configuration file `hybris/config/localextensions.xml` and replace the contents with the following:

```
<?xml version="1.0" encoding="UTF-8"?>
<hybrisconfig xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="resources/schemas/extensions.xsd">
    <extensions>
        <path dir="${HYBRIS_BIN_DIR}" />
        <extension name="commercesearchbackoffice" />
        <extension name="solrfacetsearchbackoffice" />
        <extension name="solrserver" />
        <extension name="yacceleratorinitialdata" />
        <extension name="yacceleratorstorefront" />
        <extension name="apparelstore" />
        <extension name="amplienedmaddon" />
        <extension name="amplienedmcockpits" />
        <extension name="amplienedmbackoffice" />
    </extensions>
</hybrisconfig>
```

9. Install the Amplience DM Hybris Accelerator addon into the `yacceleratorstorefront` by running this command:

```
ant addoninstall -Daddonnames="amplienedmaddon"
DaddonStorefront.yacceleratorstorefront="yacceleratorstorefront"
```



If you have run `modulegen` to create your project from the hybris accelerator templates then you would specify your own storefront extension in the command above. See the hybris documentation for the `addoninstall` command for more details.

10. Build your Hybris project by running this command:

```
ant clean all
```

11. Initialize the Hybris system and database by running this command:

```
ant initialize
```

12. If you have not already done so add the standard Hybris Accelerator host mappings to your local hosts file:

- The Hybris Accelerator uses the hostnames `apparel-uk.local` and `apparel-de.local` which need to map to your machine running Hybris.
- For full details on how to edit the `etc/hosts` file on your system see: <https://support.rackspace.com/how-to/modify-your-hosts-file/>
- The following approaches should work on most systems:

```
// WINDOWS powershell;  
powershell Start-Process "notepad.exe %WINDIR%\System32\drivers\etc\hosts"  
-Verb runAs  
// OR WINDOWS UAC elevated Command Prompt  
notepad.exe %WINDIR%\System32\drivers\etc\hosts  
  
// MAC / LINUX - run as root  
vi /etc/hosts
```

Add the following host file entry to the bottom of the hosts file:

```
127.0.0.1 apparel-uk.local. apparel-de.local.
```

13. Start the Hybris application server by running this command:

```
// WINDOWS  
hybrisserver.bat  
  
// LINUX / MAC  
./hybrisserver.sh
```

- Wait for the application startup to complete, when it is ready you should see console log message like this:

```
INFO: Server startup in 120106 ms
```

14. Open the Hybris Accelerator storefront in a browser using this URL: <https://apparel-uk.local:9002/yacceleratorstorefront/>

## Configuring Hybris to send emails

If you want Hybris to be able to send emails, for example the Ampliance missing images report email, then it needs configuration for an SMTP server.

- Add the following properties to the `hybris/config/local.properties` file:

```
Mail.smtp.server=my-server-name  
Mail.smtp.port=25
```

2. If you have a SMTP server that requires authentication then you can also specify the following properties:

```
mail.smtp.user=username  
mail.smtp.password=password  
mail.use.tls=true-or-false
```

## Pages to Visit in the Hybris Accelerator

The following pages in the Hybris Accelerator highlight the Ampliance functionality available in the solution:

Page name	URL	Description
Home page	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/">https://apparel-uk.local:9002/yacceleratorstorefront/en/</a>	Apparel Store UK home page
Category page - Helmets	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/Categories/Helmets/c/450000">https://apparel-uk.local:9002/yacceleratorstorefront/en/Categories/Helmets/c/450000</a>	Helmets category page showing product images from Ampliance with overlay roundels.
Category page - T Shirts	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/Categories/Streetwear-youth/T-Shirts-youth/c/270100">https://apparel-uk.local:9002/yacceleratorstorefront/en/Categories/Streetwear-youth/T-Shirts-youth/c/270100</a>	Streetware T-Shirts youth category showing more Ampliance overlay roundels.
Product Detail Page - Gallery	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/Categories/Helmets/Helmets-Snow/Trace-Helm/p/102277_green">https://apparel-uk.local:9002/yacceleratorstorefront/en/Categories/Helmets/Helmets-Snow/Trace-Helm/p/102277_green</a>	Product showing product media gallery loaded from Ampliance & alternative colour swatches loaded from Ampliance.
Product Detail Page - Add to Bag	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/Categories/Helmets/Helmets-Snow/Trace-Helm/p/102277_black_matte">https://apparel-uk.local:9002/yacceleratorstorefront/en/Categories/Helmets/Helmets-Snow/Trace-Helm/p/102277_black_matte</a>	Product that can be added to the Bag. Select 'Checkout' to view the Bag, image loaded from Ampliance.
Static Page	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-static">https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-static</a>	Static page (not content managed) showing Ampliance tags available to developers. Shows image tag and responsiveImage tag.
CMS page - POI	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-poi">https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-poi</a>	CMS Page containing an Ampliance Image Component which displays an image from Ampliance rendered with a responsive and point of interest (POI) aware template.

<b>CMS page - Carousel</b>	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-carousel">https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-carousel</a>	CMS Page containing an Ampliance Carousel Component which displays a carousel of images from an Ampliance media set.
<b>CMS page - UGC Carousel</b>	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-ugc-carousel">https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-ugc-carousel</a>	CMS Page containing an Ampliance UGC Carousel Component which displays a UGC stream from Ampliance using a carousel style.
<b>CMS Page - UGC Media Wall</b>	<a href="https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-ugc-media-wall">https://apparel-uk.local:9002/yacceleratorstorefront/en/amp-ugc-media-wall</a>	CMS Page containing an Ampliance UGC MediaWall Component which displays a UGC stream from Ampliance using a media wall style. These UGC cards are enriched with product SKUs therefore clicking on a picture should open up the details popup for that content and show a related product. Clicking on the “Buy Now” button will open the storefront’s quick view popup for the related product.

## Using your own Ampliance Account

### Configuring Hybris to use your Ampliance Account



By default the Ampliance Extension 2.0.0 for SAP® Hybris® Commerce is configured to use the turnkey `hybrisext` Ampliance account. This account can be used for demo and familiarization purposes. To host your own media data in Ampliance you will need a separate account. You can request an account from Ampliance.

Once you have your Ampliance account details you can configure the Ampliance Extension in a couple of different ways.

#### Single Ampliance Account

If you have a single Ampliance account configuration that you want to use for all your sites then you can set the following properties in your `hybris/config/local.properties` file:

```
ampliance.dm.config.accountIdentifier=
ampliance.dm.config.analyticsCollectorId=
ampliance.dm.config.imageHostname=
ampliance.dm.config.contentHostname=
ampliance.dm.config.analyticsHostname=
ampliance.dm.config.scriptHostname=
```

#### Multiple Ampliance Accounts

If you have multiple sites in your Hybris solution that need to use different Ampliance account details then these settings can be specified on each `Hybris BaseSite`. The settings on the `BaseSite` take priority over the values set in the `hybris/config/local.properties` file.

## Exporting Accelerator Sample Product Images



Initially your Ampliance account will not contain any product media. The Ampliance Extension 2.0.0 for SAP® Hybris® Commerce includes a script to export the Hybris product images. This script works with the Hybris Accelerator Apparel Store product model and

may need to be customised if your product model is different.

The script exports the images using a naming convention that is supported by Ampliance. Check with Ampliance Customer Success to ensure that your account is setup with the standard `hybrisext` import script.

Execute the script from the Hybris administration console's (hac) Scripting Languages Console. The script file is in the `amplienedmaddon` extension, so in your project folder look in:

```
hybris/bin/ext-ampliance/amplienedmaddon/resources/amplienedmaddon/script/exportImages.groovy
```

The script has some configurable settings. By default the images are written to the following folder:

```
hybris/temp/ampliance
```

These images can then be manually uploaded into your Ampliance account using the account's configured FTP service (Ampliance Customer Success can give you your FTP details). The Ampliance ingest process may take some time to run. The Ampliance import script will take care of importing the images, grouping them into sets and publishing them.

## Deleting Product Images from Hybris



Once the product images have been exported from Hybris and uploaded into Ampliance they are no longer needed in Hybris. These product images can be deleted using a script in the `amplienedmaddon` extension.

This delete images script can be run in the same way as the export script above. The script is in the same location but called `deleteImages.groovy`:

```
hybris/bin/ext-ampliance/amplienedmaddon/resources/amplienedmaddon/script/deleteImages.groovy
```

The script will delete the images from both the staged and online products. Only do this once you have confirmed that your storefront images are being correctly served from Ampliance.

## Uploading Support Images



The Ampliance Extension 2.0.0 for SAP® Hybris® Commerce requires a small number of support images to exist in your Ampliance account. These images exist in the turnkey `hybrisext` account but if you are using your own account you will need to upload these images via your Ampliance FTP account (Ampliance Customer Success can give you your FTP details).

The images are included in the `amplienedmaddon` extension and are located in at the following location:

```
hybris/bin/ext-ampliance/amplienedmaddon/resources/amplienedmaddon/upload-images
```



After uploading these images manually into your Ampliance account make sure that they are published. We suggest you put these images into a separate asset store in Ampliance.

# Setting up your Amplience Account



Your Amplience account should be setup with the same locales and transformation templates as the standard `hybrisext` account.

## Locales

Amplience supports multiple locales, however each locale needs to be setup in your account. You do this from the Amplience site through the user menu in the top right corner of the page.

## Transformation Templates



The following transformation templates should exist in your account.

### Transformation templates that match Hybris image formats:

Template name	Parameters
product	<code>w=300&amp;h=300&amp;sm=MC&amp;upscale=true&amp;filter=l&amp;img404=missing_product</code>
thumbnail	<code>w=96&amp;h=96&amp;sm=MC&amp;upscale=true&amp;filter=l&amp;img404=missing_product</code>
cartIcon	<code>w=65&amp;h=65&amp;sm=MC&amp;upscale=true&amp;filter=l&amp;img404=missing_product</code>
styleSwatch	<code>w=30&amp;h=30&amp;sm=MC&amp;upscale=true&amp;filter=l&amp;img404=missing_product</code>
zoom	<code>w=1200&amp;h=1200&amp;sm=MC&amp;upscale=true&amp;filter=l&amp;img404=missing_product</code>

### Additional transformation templates:

Template name	Parameters
roundel	<code>layer0=[w=1000]&amp;layer1=[src=/i/hybrisext/badge_sale&amp;w=400&amp;right=10&amp;top=10&amp;anchor=TR&amp;visible=\$sale]&amp;layer2=[src=/i/hybrisext/badge_new&amp;w=400&amp;left=10&amp;top=10&amp;anchor=TL&amp;visible=\$new]&amp;layer3=[src=/i/hybrisext/badge_low_stock&amp;w=400&amp;left=10&amp;bottom=10&amp;anchor=BL&amp;visible=\$stock]</code>

poi	poi={(\$this.metadata.pointOfInterest.w==0)?0.5:\$this.metadata.pointOfInterest.x},{(\$this.metadata.pointOfInterest.w==0)?0.5:\$this.metadata.pointOfInterest.y},{(\$this.metadata.pointOfInterest.w},{(\$this.metadata.pointOfInterest.h}&scaleFit=poi&sm=aspect&aspect=1:1
backoffice	productType=0



If you create any new transformation templates in your account or change any existing ones then make sure that you publish the changes.