

HP WallArt Suite WordPress Plugin User Guide

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1 Introduction

HP WallArt is a new concept on the wall decoration with personalized designs. The main features of the model are:

1. Design personalization through an advanced web designer.
2. Printed on ecological paper with an easy self-installation by the end user.

HP WallArt plug-in becomes a plug-in developed as a complement of the electronic WooCommerce to integrate the HP WallArt usefulness into WordPress providing to all the companies the option to create an e-commerce site based on the products customization through the HP WallArt solution.

The main functions of this plug-in are:

1. Creation of products supported by HP WallArt.
2. Setting an image search engine on the Fotolia API.
3. Set the hooks and functions to adapt the process parameters to the process of buying WooCommerce.

To configure the system programming level we will consider the following actors in the system architecture:

1. **End user:** becomes the customer that will be interacting with a web site and with the HP designer to customize his wall.
2. **E-commerce web site:** web site where the end user will be allowed to enter with a login to create projects, manage and pay for them.
3. **Project:** each request customized by the end user.
4. **Designer HP WallArt or simulator:** web space where the end user is able to place and compose a wall using different components.
5. **Background:** each image that the end user can select in every project as a wall background.
6. **Objects:** each image that the end user can overlap over the background of the project.
7. **Text:** it is the option that the designer offers to customize texts over the background

The system here exposed is configured on a server with the following characteristics:

- **LINUX Server (Proper operation is not guaranteed on windows)**
 - The server must have disabled the mod_security option.

- **Apache 2.0 Server** <http://www.apache.org>
- **Programming language PHP 5.3.10 or superior** <http://es.php.net>
- **Database MySQL 5.5.29 or superior** <http://www.mysql.com>
- **WordPress 4.0 or superior** <https://www.wordpress.org>
- **WooCommerce 2.2.8 or superior** <http://www.woothemes.com/woocommerce>
- **Theme compatible with WooCommerce**
<http://www.woothemes.com/product-category/themes/>, for instance:
 - TopShop theme, by Kaira: <http://demo.kairaweb.com/topshop/>
 - Corpbiz: <https://wordpress.org/themes/corpbiz/>
 - Virtue: <https://wordpress.org/themes/virtue/>

Secure navigation SSL with certificate (optional) <https://www.geotrust.com>

2 Installation

Step by step

The following procedure describes the plug-in installation for a user (supplier) that is going to offer the customizing products with the HP WallArt solution.

The installation steps are:

1. Domain registration.
2. Reserve a server with the characteristics indicated in the introduction section.
3. WordPress last update installation.
4. Woocommerce last update installation.
5. HP WallArt plug-in installation.

As the three first steps are simple, let's focus on the steps four and five.

4. Woocommerce last update installation.

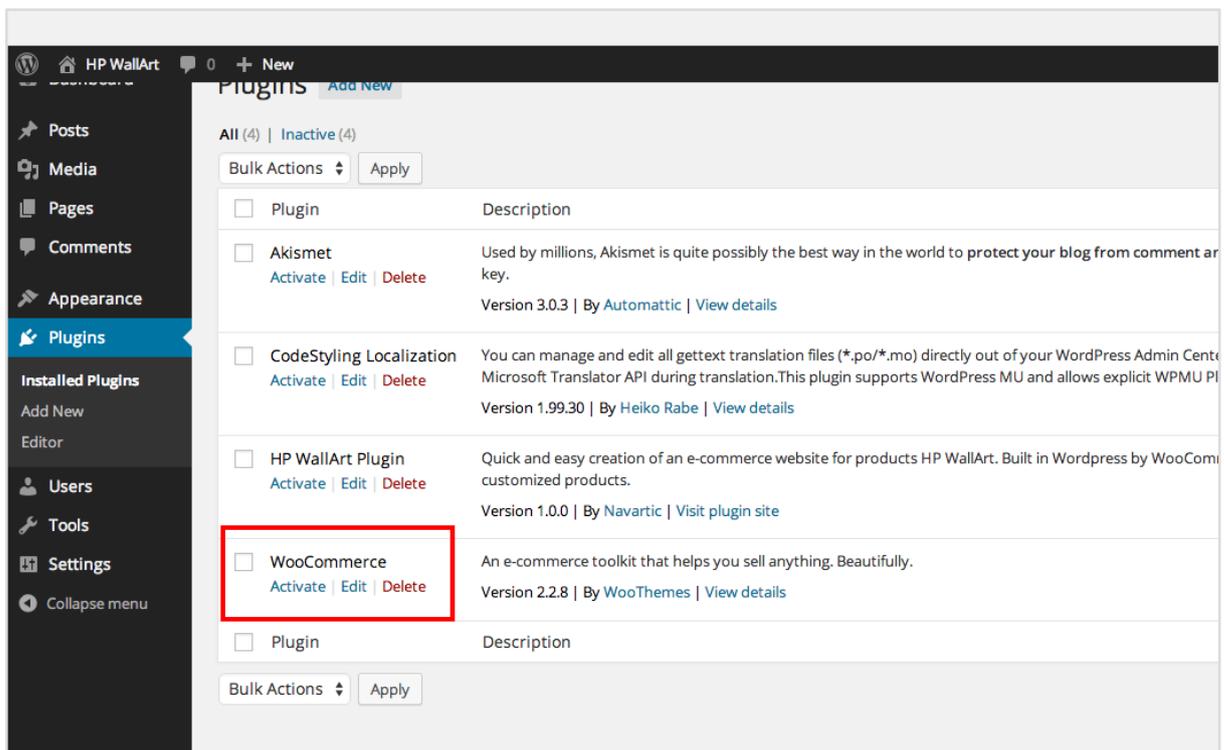


Figure 1

When you activate the plug-in from the plug-ins section a notice to install WooCommerce own pages appears. Click on install:

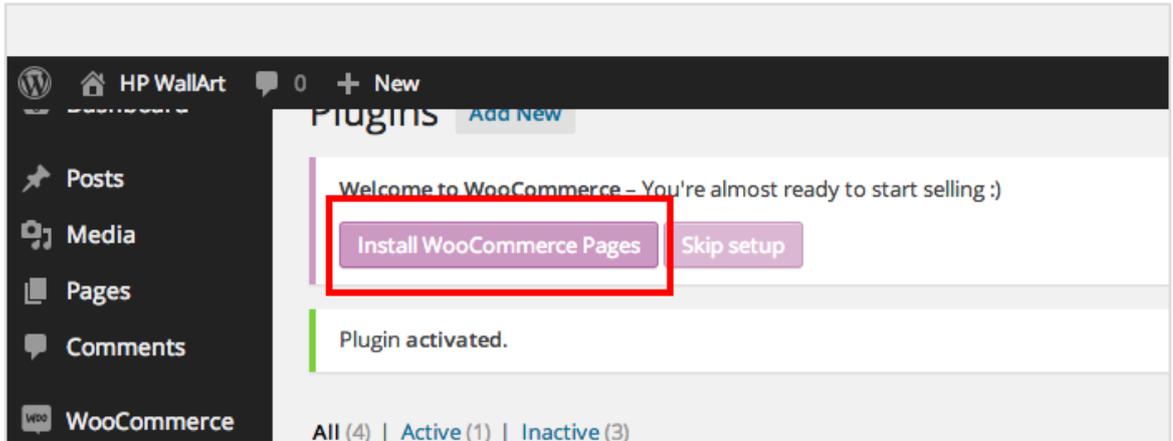


Figure 2

Depending on the language we use it is advisable to download the latest translation files.

In case the translation files for the required language are not uploaded yet, it is possible to translate it by using the alternative option.

Currently we are working on the inclusion of WordPress Plugin translations into other languages a part from Spanish and English, which are already provided. If the translation is urgent, the developers team recommends installing [translator](#) to translate it.



Figure 3

5. HP WallArt plug-in installation

We activate the plug-in previously downloaded on the plug-ins' folder:

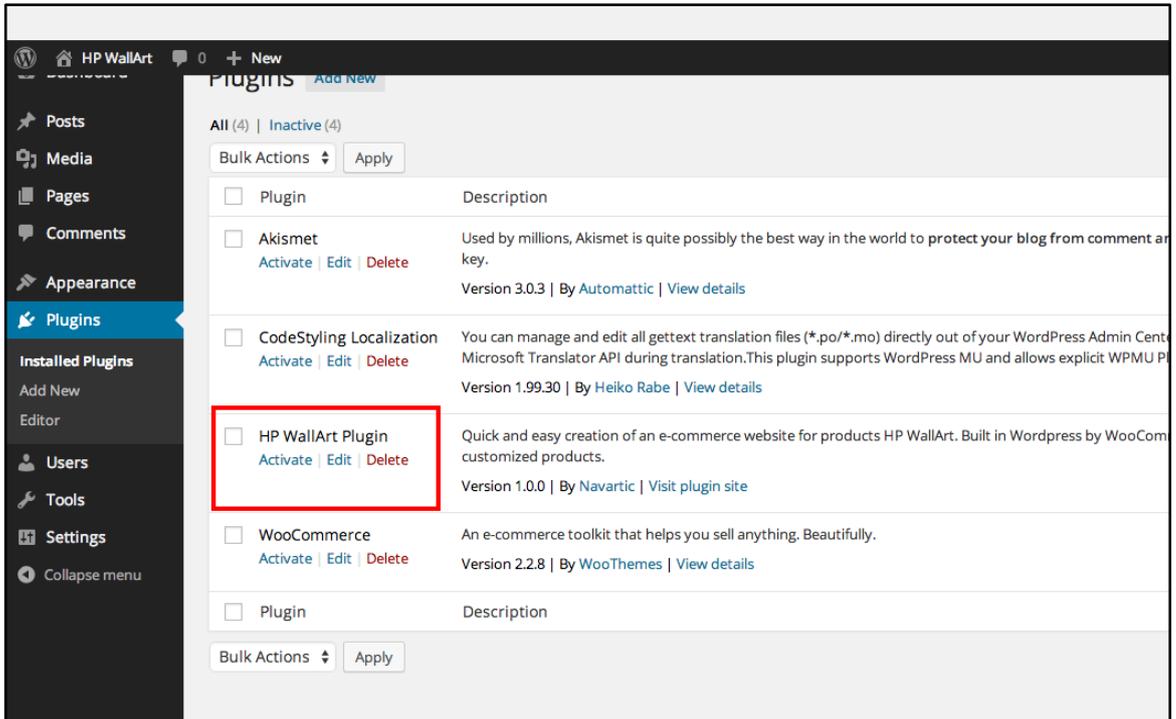


Figure 4

In this way the system is already set up to be used. Keep in mind that to fully function as an e-commerce site the WooCommerce plug-in must be configured at least with the following parameters:

1. Methods of payment: Paypal®, bank transfer, by check, VISA®...
2. Shipping methods: carriers, postal address.

The setting of these parameters is not the subject of this manual but should be taken into account.

It is also necessary to explain that the plug-in has been developed based on the theme Virtue of WordPress, so it is advisable to install this theme as a base and then work on it if you want to adapt the appearance to the corporate image.

3 HP WallArt Plugin Settings

3.1 Generic options

HP WallArt Plugin Settings

Generic options | Stock imagery options | SKU options

Generic Options

Set Design as homepage Set Design as homepage Unset Design as homepage

Use backgrounds Check if you are using backgrounds

Use objects Check if you are using objects

Allow user to upload their own images Check if you allow user to upload their own images

Images per page Set the number of images per page in the backgrounds and objects pages

Backgrounds on the sidebar Set the maximum number of backgrounds on the sidebar

Objects on the sidebar Set the maximum number of objects on the sidebar

Active tooltip Activate the tooltips over the images

Save Changes

Figure 5

Set Design as homepage

Set the design page of HP WallArt as home page in the website.

Use backgrounds

Enable the second step to select background images.

Use objects

Enable the third step to select vectorial images of objects.

Allow users to upload their own images

It allows the users uploading their own images on the media gallery. These images are limited in size (2MB) and format (JPG and PNG).

Images per page

Number of images shown in each page of results, results pagination.

Backgrounds on the sidebar

Maximum number of blank spaces in the sidebar to save the selected background images.

Objects in the sidebar

Maximum number of blank spaces in the sidebar to save the selected object images.

Active tooltip

It activates the extended thumbnails when you hover over the image.

3.2 Stock imagery options

HP WallArt Plugin Settings

Generic options | **Stock imagery options** | SKU options

Stock Imagery Options

Fotolia settings

Fotolia API Key Enter the API key provided by Fotolia

Big Stock Photo settings

Big Stock Photo Account Id Enter the Account Id provided by Big Stock Photo

Big Stock Photo Secret Key Enter the Secret Key provided by Big Stock Photo

Pattern Design settings

Pattern Design API key Enter the API key provided by Pattern Design

Pattern Design HMAC Key Enter the HMAC Key provided by Pattern Design

Media library

You will use your own images and files hosted on Wordpress Media library.

User Dropbox settings

With this method the user will log into his Dropbox account and can use the images that he want, using two folders called "scenes" and "elements".

Google Drive settings

Google Drive Scenes URL This is the HPWallArt Google Drive Scenes URL

Google Drive Objects URL This is the HPWallArt Google Drive Objects URL

Dropbox settings

Dropbox Scenes URL This is the HPWallArt Dropbox Scenes URL

Dropbox Objects URL This is the HPWallArt Dropbox Objects URL

[Save Changes](#)

Figure 6

Fill in these fields only when you need to configure the external content accessible by the users. In this section, the configuration parameters of the different image banks or storing systems in the cloud allowed by the application.

Fotolia

For its use, you should obtain the API key of Fotolia and enter it in the Stock Imagery menu.

fotolia 34,330,615 Royalty Free Stock Photos
0208 816 7284

My Account My Services My Files Buy Images! Images Vectors Videos

Search keywords or image ID All files GO!

API

Key	URL	Date	File Type
EM0tkFMXXXXXXXXXRIUbisIdDLKT91Y	http://hp.navartic.es	2014-09-29 10:12:16 pm	Developer API Key

- API Key is pending approval
- API key has been validated
- No API keys have been created!

Figure 7

Big Stock Photo

For its use, you should obtain the **Account ID** and the **Secret Key** of Big Stock Photo and enter it in the Stock Imagery menu.

BIGSTOCK Inicio Más información Documentación de API

Home Downloads Payments **API Keys** Documentation My Bigstock Account Contact Us

You will need these keys for authenticating and secure requests. The secret key should never be exposed in a "public" area, such as a URL or in JavaScript.

Account ID

474 [redacted]
— You'll need to pass this for all requests. This identifies you. [Read more.](#)

Secret Key

0a658a54cca [redacted] 8d3ba28e248601c0 ([regenerate](#))
— **important:** Your secret key is secret! Do not share or expose it through URLs/JavaScript.

Figure 8

Pattern Design

For its use, you should obtain the **API key** and the **HMAC key** of the Pattern Design and then enter it in the Stock Imagery menu.

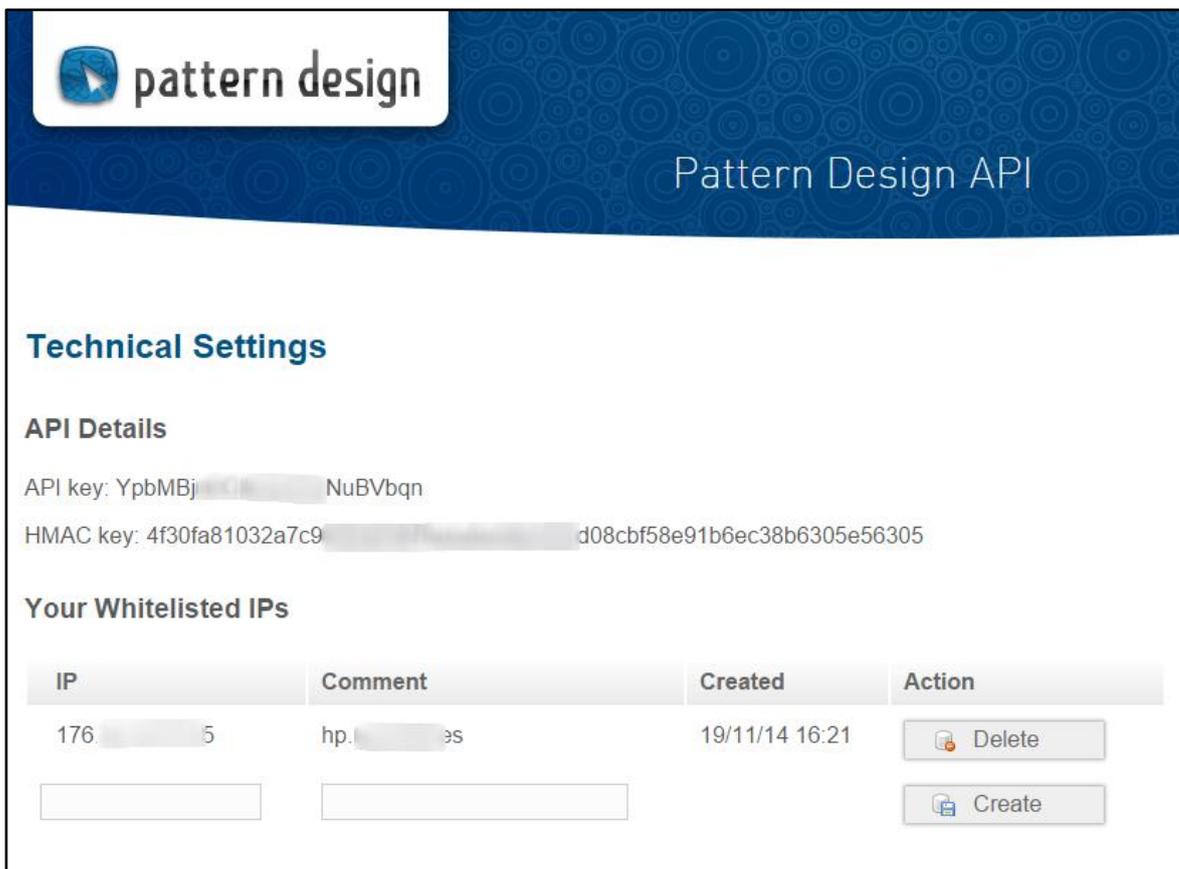


Figure 9

Media Library

It informs when you are using Media Library images of WordPress. It allows using images from the WordPress imagery gallery. It is not necessary to introduce any parameter.

User Dropbox

It is the utilization of Dropbox with log in by the user, to access his library. The system will ask the user for the credentials to access his Dropbox folder. It is similar to a log in process when using Facebook or Google+, where the user requests permissions and it is necessary to do log in.

Google Drive

For its use as storage, you must enter the path to the **Google Drive** folders that you want to use to upload **Backgrounds** or **Objects**. You have to enter the path of two directories, one for backgrounds and another one for objects. Previously, it is necessary that you create these folders in Google Drive and obtain its path.

Dropbox

For its use as storage, you must enter the path of the Dropbox folders that you want to use to upload **Backgrounds** or **Objects**. You have to enter the path of two directories, one for backgrounds and another one for objects. Previously, it is necessary that you create these folders in Google Drive and obtain its path.

3.3 SKU options

SKU	Select/Deselect	Backgrounds imagery	Objects imagery
Use Wall	<input checked="" type="checkbox"/> <i>Check if you are using Wall</i>	Fotolia	Fotolia
Use Canvas	<input checked="" type="checkbox"/> <i>Check if you are using Canvas</i>	Media gallery	Media gallery
Use Poster	<input checked="" type="checkbox"/> <i>Check if you are using Poster</i>	Google Drive	Fotolia
Use Decal	<input checked="" type="checkbox"/> <i>Check if you are using Decal</i>	Not applicable	Media gallery

[Save Changes](#)

Figure 10

Enables or disables the use of SKU (Wallcoverings, Canvas, Posters or Decals).

Selects/Deselects *Enables or disables the use of SKU*

Backgrounds imagery It allows choosing a source of images within the existing ones for backgrounds.

Objects imagery It allows choosing a source of images within the existing ones for objects.

4 Configure the workflow for the final user

4.1 Option A : Enable the selection of Images

This option will let the users to access the *Designer* of HP WallArt with a previous selection of Backgrounds or Objects.

The steps that the user will follow before entering in the designer are:

- Selecton of the Project type
- Wall size
- Search and selection of backgrounds (the user can also upload his own pictures)
- Search and selection of Objects (the user can also upload his own images)
- Designer entering

The screenshot shows the 'HP WallArt Plugin Settings' interface. It has three tabs: 'Generic options', 'Stock imagery options', and 'SKU options'. The 'SKU options' tab is active, displaying a table with columns for 'SKU', 'Select/Deselect', 'Backgrounds imagery', and 'Objects imagery'. The table lists four SKUs: 'Use Wall', 'Use Canvas', 'Use Poster', and 'Use Decal'. Each row has a checked checkbox with a label like 'Check if you are using Wall'. The 'Backgrounds imagery' column contains dropdown menus with values like 'Fotolia', 'Media gallery', and 'Google Drive'. The 'Objects imagery' column contains dropdown menus with values like 'Fotolia' and 'Media gallery'. A 'Save Changes' button is located at the bottom left of the settings panel.

SKU	Select/Deselect	Backgrounds imagery	Objects imagery
Use Wall	<input checked="" type="checkbox"/> <i>Check if you are using Wall</i>	Fotolia	Fotolia
Use Canvas	<input checked="" type="checkbox"/> <i>Check if you are using Canvas</i>	Media gallery	Media gallery
Use Poster	<input checked="" type="checkbox"/> <i>Check if you are using Poster</i>	Google Drive	Fotolia
Use Decal	<input checked="" type="checkbox"/> <i>Check if you are using Decal</i>	Not applicable	Media gallery

Figure 11

This selection allows combining for each SKU (wall, canvas, decal and poster) different image origins, for **backgrounds** and for **objects**. Also, it allows **enabling** or **disabling** the different SKU.

For each SKU, we have:

Enable or disable the use of the SKU (Wallcoverings, Canvas, Posters or Decals).

Select/Deselect *It enables o disables the use of the SKU*

Backgrounds imagery It allows choosing a source of images within the existing ones for backgrounds.

Objects imagery It allows choosing a source of images within the existing ones for objects.

In case you don't have any active or configured bank in *Stock Imagery Options* yet, we recommend choosing Media Gallery. Bear in mind that selecting this option to visualize images using the search tool, you need to upload the images in the Plugin of *Media* and add the identifications or tags that will allow the users searching the images in an easier way.

Comment: There are two exceptions:

In the SKU **Decal** configuration, the selection of the **Background Imagery** is not necessary.

Pattern Design in **Object** imagery. They are not used as objects.

4.2 Option B : Skip the selection of Images

This option will allow the users to access the de HP WallArt *Designer* without selecting a Background or Object previously.

The steps that the user will follow before entering in the Designer are:

- Project type selection
- Wall size
- Designer entering

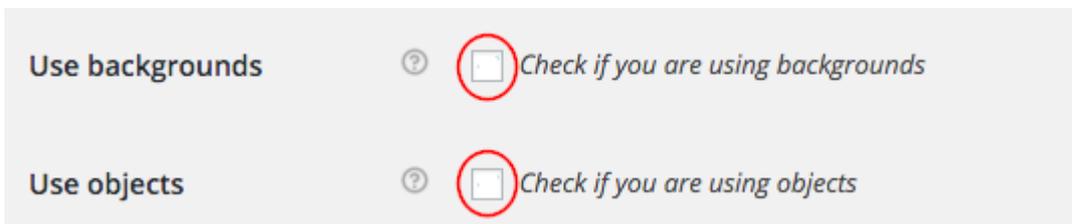


Figure 12

5 Communication between WordPress Plugin and your HP WallArt account

This section requires the input of three different parameters and checking the plugin configuration versus the introduced parameters in www.hpwallart.com. This step is **mandatory** for the plugin to work.

Data check			
Customization			
Parameter	Settings in WallArt plugin	Settings in WallArt account	Status
Wall Covering	YES	YES	✓
Decal	YES	YES	✓
Canvas	YES	YES	✓
Poster	YES	YES	✓
URL Identifier	younique		✓
Unit system		Metric	n/a
Currency		\$	n/a
Tax		7 %	n/a
Production			
Parameter	Settings in WallArt account	Status	
Canvas frame width	6	n/a	
Canvas frame type	natural	n/a	
Canvas size	free	n/a	
Web Integration			
Parameter	Settings in WallArt plugin	Settings in WallArt account	Status
Authorization URL	http://[redacted].com/wp-content/plugins/hpwallart/authorize.php		✓
Service URL	http://[redacted].com/wp-content/plugins/hpwallart/services.php		✓
Content Hosting Site	http://[redacted].com/wp-content/plugins/hpwallart/content.php		✓

Figure 13

Also, many of the options recovered from your account define the plugin usage: the Currency, Tax and Unit System.

The requested parameters are:

www.hpwallart.com data

Introducing the username and password for your www.hpwallart.com account, you can check if the installation is well done or if you have to correct some parameter, either in this plugin, or in your www.hpwallart.com account.

WallArt user: Enter the user (email) for www.hpwallart.com

WallArt password: Enter the password for www.hpwallart.com

HP WallArt Base Url: Enter the identifier provided by HP WallArt

[Save Changes and Check Data](#)

Figure 14

WallArt User (e-mail account)

User to access www.hpwallart.com

WallArt password

Password to access www.hpwallart.com

HP WallArt base Url

The identifier provided by HP WallArt Solution, **URL Identifier**. It can be found in **Settings > System configuration**.

Settings

System configuration

Units & currency

Currency symbol * ⓘ VAT(%)

Currency conversion 1.0 USD = \$ 1.0 EUR = \$
This currency conversion will be used for the pricing of some content providers

Unit system for length ⓘ Imperial system Metric system

Apps configuration

Redirection ⓘ
When designer closes you will be redirected to this page

URL identifier * ⓘ
Shows your company name into the URL when your apps are open
i.e. <https://appname.hpwallart.com/Companyname>

e-mail notifications: Receive email on project initiation ⓘ

Content visualization: Display names of backgrounds and objects ⓘ

Screensaver: Activate screen saver ⓘ
Shows an screensaver when the computer is not in use

Settings

Company settings

Printers & RIP

System configuration

Workflow integration

Application settings

Wallcoverings

Posters

Wall Decals

Canvas

Tablet application

Content providers

Integration

Figure 15

Once we have introduced all the parameters following the steps explained throughout this section and the steps in the **Web Integration** are completed, when selecting **Save Changes** and **Data Check** several indicators will show whether the process has been satisfactory or not.

Data check			
Customization			
Parameter	Settings in WallArt plugin	Settings in WallArt account	Status
Wall Covering	YES	YES	✓
Decal	YES	YES	✓
Canvas	YES	YES	✓
Poster	YES	YES	✓
URL Identifier	youunique		✓
Unit system		Metric	n/a
Currency		\$	n/a
Tax		7 %	n/a
Production			
Parameter	Settings in WallArt account	Status	
Canvas frame width	6	n/a	
Canvas frame type	natural	n/a	
Canvas size	free	n/a	
Web Integration			
Parameter	Settings in WallArt plugin	Settings in WallArt account	Status
Authorization URL	http://[redacted].com/wp-content/plugins/hpwallart/authorize.php		✓
Service URL	http://[redacted].com/wp-content/plugins/hpwallart/services.php		✓
Content Hosting Site	http://[redacted].com/wp-content/plugins/hpwallart/content.php		✓

Figure 16

The **green check** displayed below the title **Status**, indicates that this parameter is correct.

In the rest of the cases, the display of other parameter values is for information only.

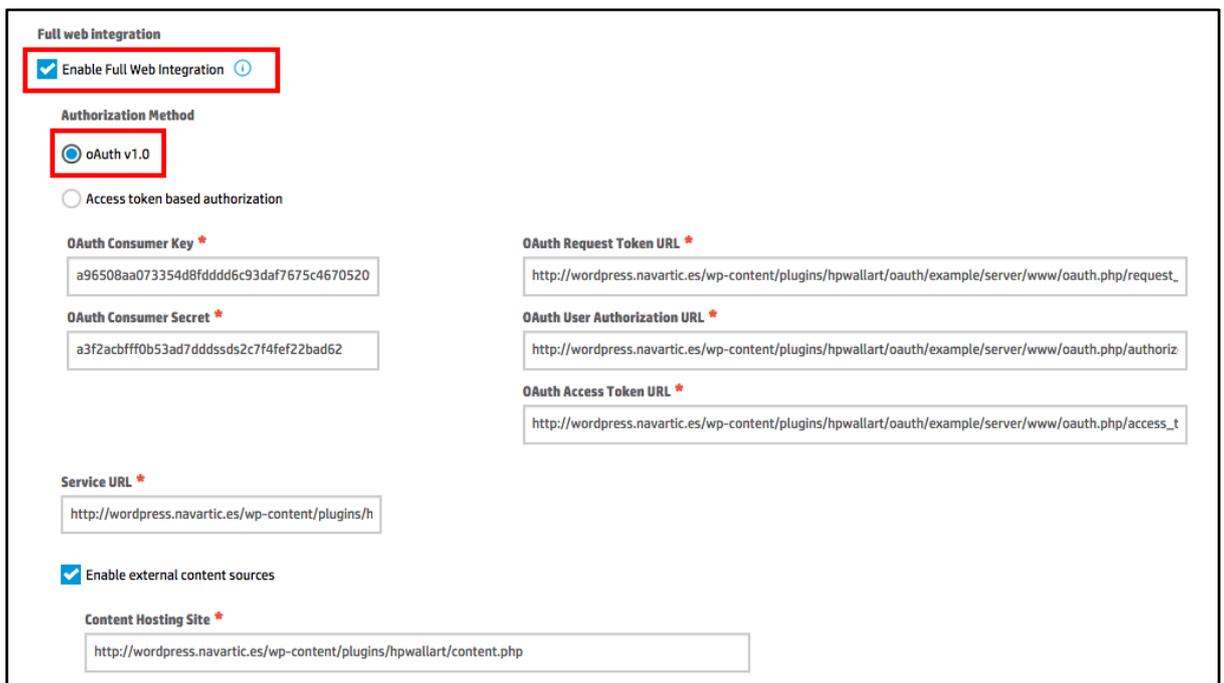
6 Web Integration

6.1 URL configuration of OAuth in HPWallArt

Parameters to introduce

On our administrator site www.hpwallart.com we must enter a number of parameters to integrate HP WallArt API. There are two configuration options A and B, using **oAuth** and using **Token access**. Based on the domain address that should be the type **https://www.mydomain.com** we need to configure the following urls as follows:

6.1.1 Option A : Autentication using oAUTH 1.0



The screenshot shows the 'Full web integration' configuration page. The 'Enable Full Web Integration' checkbox is checked and highlighted with a red box. Under 'Authorization Method', the 'oAuth v1.0' radio button is selected and highlighted with a red box. The 'oAuth Consumer Key' field contains the value 'a96508aa073354d8fddd6c93daf7675c4670520'. The 'oAuth Consumer Secret' field contains the value 'a3f2acbfff0b53ad7dddssds2c7f4fef22bad62'. The 'oAuth Request Token URL' field contains 'http://wordpress.navartic.es/wp-content/plugins/hpwallart/oauth/example/server/www/oauth.php/request_'. The 'oAuth User Authorization URL' field contains 'http://wordpress.navartic.es/wp-content/plugins/hpwallart/oauth/example/server/www/oauth.php/authoriz'. The 'oAuth Access Token URL' field contains 'http://wordpress.navartic.es/wp-content/plugins/hpwallart/oauth/example/server/www/oauth.php/access_t'. The 'Service URL' field contains 'http://wordpress.navartic.es/wp-content/plugins/h'. The 'Enable external content sources' checkbox is checked. The 'Content Hosting Site' field contains 'http://wordpress.navartic.es/wp-content/plugins/hpwallart/content.php'.

Figure 17

First, we need to check the box "Enable Full Web Integration", the box "oAuth v1.0" and the box "Enable external content sources":

oAuth Consumer key: it is necessary to configure it with this value
a96508aa073354d8f6c93daf7675c467052095160

oAuth Consumer Secret: it is necessary to configure it with this value
a3f2acbfff0b53ad72c7f4fef22bad62

Service URL: <https://www.mydomain.com/wp-content/plugins/hpwallart/oauth/example/server/www/services.php>

OAuth Request Token URL: https://www.mydomain.com/wp-content/plugins/hpwallart/oauth/example/server/www/oauth.php/request_token

OAuth User Authorisation URL: <https://www.mydomain.com/wp-content/plugins/hpwallart/oauth/example/server/www/oauth.php/authorize>

OAuth Access URL: https://www.mydomain.com/wp-content/plugins/hpwallart/oauth/example/server/www/oauth.php/access_token

Content Hosting Site URL: <https://www.mydomain.com/wp-content/plugins/hpwallart/oauth/example/server/www/content.php>

6.1.2 Option B : Access token based authorization

The screenshot shows the 'External link' and 'Full web integration' sections of the HP WallArt settings. The 'Enable External Link' checkbox is checked and highlighted with a red box. Below it, a note states: '* By opening the solution through the external link you are allowing other people to submit orders to your system'. A text box contains the URL: `https://designer.hpwallart.com/navartic?external_link=true`. The 'External content' checkbox is unchecked. The 'Allow access to account templates externally' checkbox is checked. The 'Full web integration' section has 'Enable Full Web Integration' checked and highlighted with a red box. Under 'Authorization Method', 'Access token based authorization' is selected with a radio button and highlighted with a red box. The 'Authorization URL' field contains `http://wordpress.navartic.es/wp-content/plugins/hpwallart/authorize.php`. The 'Service URL' field contains `http://wordpress.navartic.es/wp-content/plugins/hpwallart/services.php`. The 'Enable external content sources' checkbox is checked. The 'Content Hosting Site' field contains `http://wordpress.navartic.es/wp-content/plugins/hpwallart/content.php`. The 'Include content uploaded to HP WallArt' checkbox is unchecked. The 'Allow access to Store Services API from whitelisted IP addresses only' checkbox is unchecked and highlighted with a red box, with the text 'NO FILL' next to it. Below this, the 'Whitelisted IP addresses (IPv4 only, comma or space separated)' field is empty.

Figure 18

The steps are the same but using the following parameters:

1. First, we need to check the box "Enable Full Web Integration" and the option "Access token based authorization":
2. Service URL: `https://www.mydomain.com/wp-content/plugins/hpwallart/services.php`
3. Authorization URL: `https://www.mydomain.com/wp-content/plugins/hpwallart/authorization.php`
4. Content Hosting Site URL: `https://www.mydomain.com/wp-content/plugins/hpwallart/content.php`

Important: **DO NOT SELECT** "Allow access to Store Services API from whitelisted IP addresses only".

It is important to make sure the **checks** below the title **Status** are **green**, otherwise we need to verify the **Full Web Integration** section inside our HP WallArt account **Settings > Web Integration:Full Web Integration** with the corresponding urls.

7 Use example

Step by step

This procedure describes the use of the plug-in from the frontend to an end user (customer) to customize a product made in HP WallArt.

The steps for a user to create a project in this system are:

Select the type of project: Poster, Canvas, Wall or Decal.

By selecting each type the maximum and minimum workable dimensions are loaded, depending on the case and base price for these dimensions.

Selection in the E-commerce site of background images and objects.

These graphic objects can be offered from image banks as Fotolia, Big Stock Photo, etc.

Fotolia API is currently implemented.

1 FORMATS AND MEASURES 2 SELECTION OF BACKGROUNDS 3 SELECTION OF OBJECTS

FORMATS AND MEASURES

Help Restart Next

Select a format, adjust the dimensions and click on "calculate" for an estimated price. Then click on "next" to select image files.

Create Poster Project Create Wall Project Create Canvas Project Create Decal Project

PRICE
\$
\$ Taxes included.
Delivery and other charges not included.

DIMENSIONS
Enter the width and height:

Width
cm

Height
cm

Calculate

Figure 19

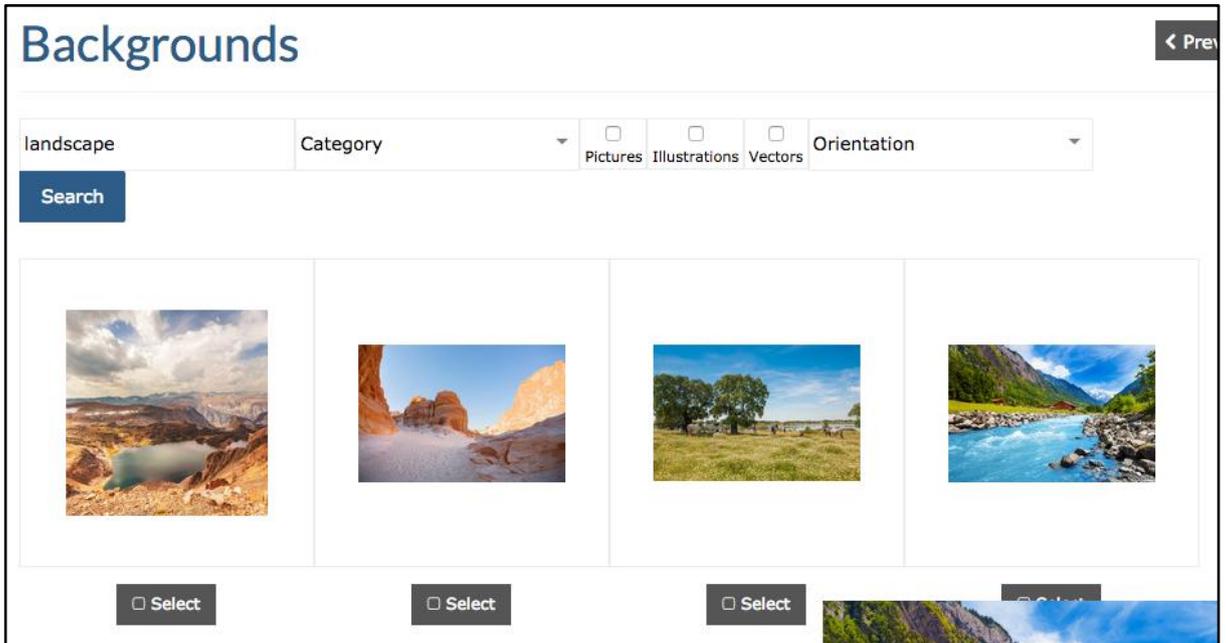


Figure 20

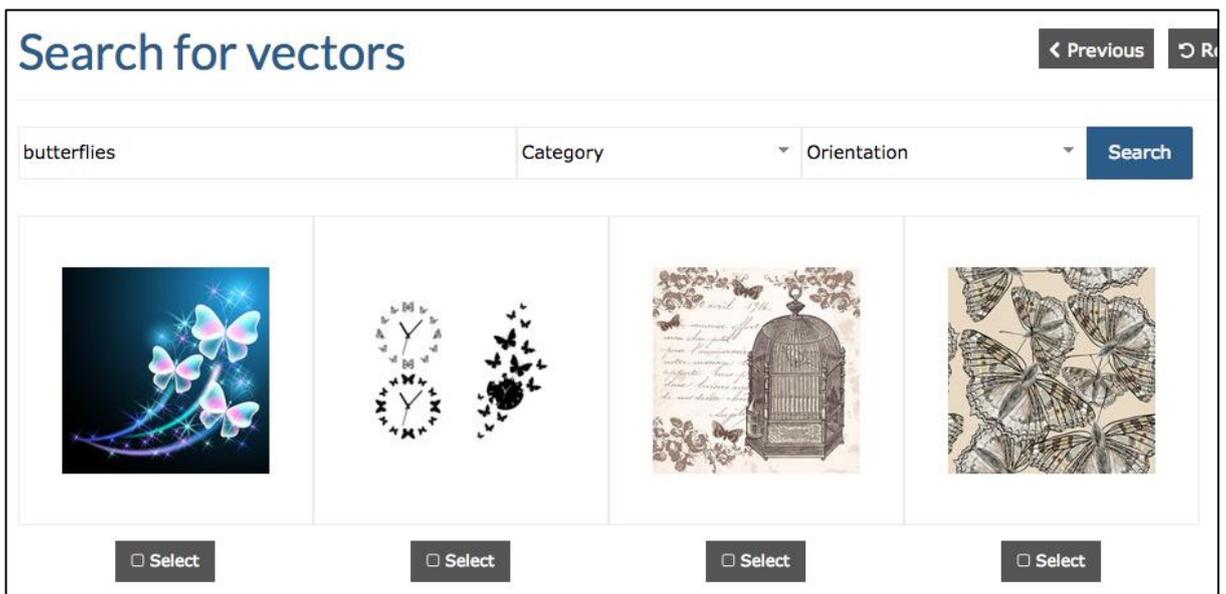


Figure 21

Access with the selected items to the HP WallArt designer.
 Once we have all the elements selected, we click the button 'Enter HP WallArt'.

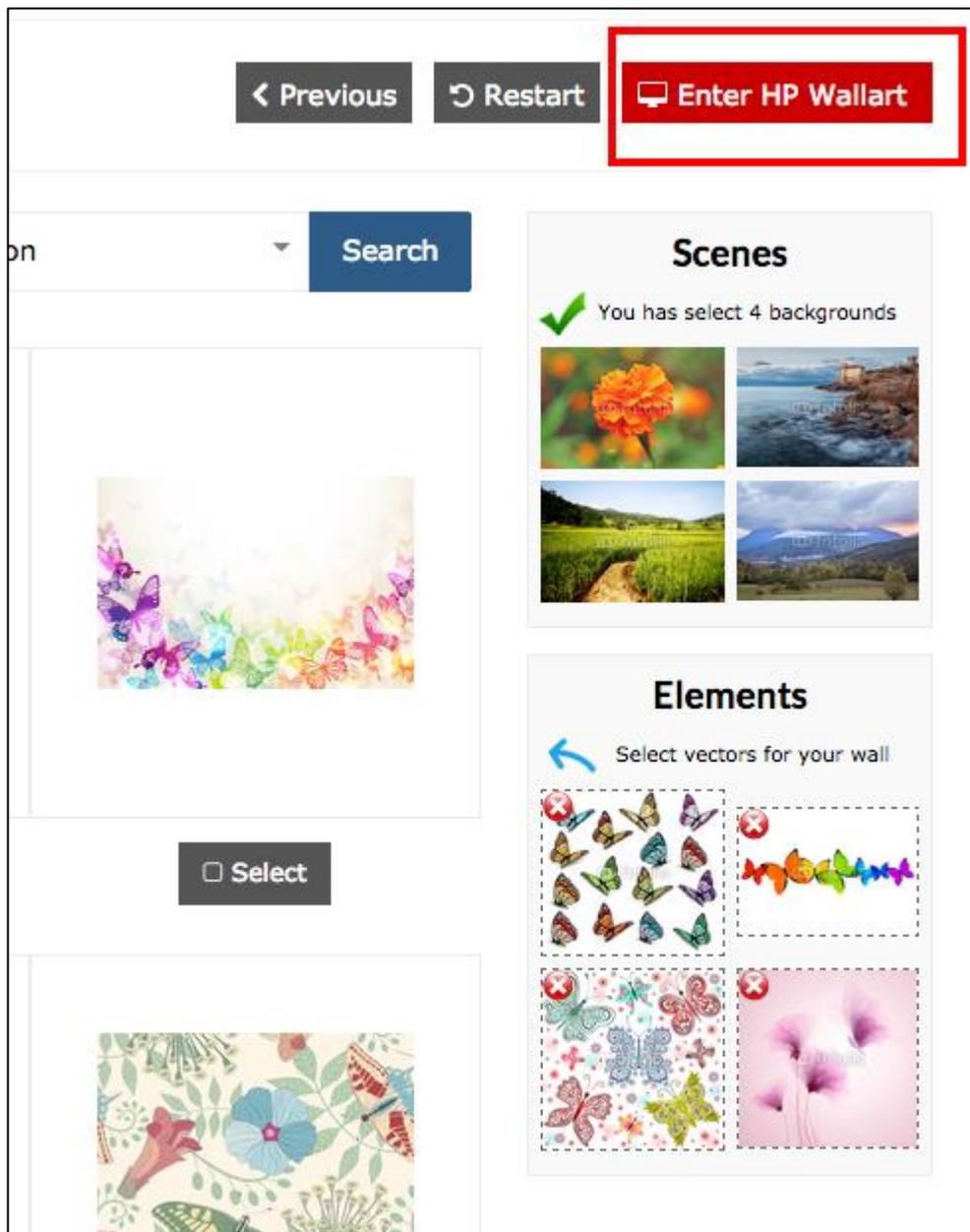


Figure 22

Customizing the project in the designer.

Once the customizing process ends, click on save, give a name to the project and click on 'add to the cart' to return to e-commerce.

Buy the product on the E-commerce site, with its system of WooCommerce shopping cart.
Access directly to the cart summary page to enter your customer data and shipping information.

Your order

Product	Total
wall × 1	
	100,00 €
Name: nuit	
Width: 200 cm.	
Height: 127 cm.	
Cart Subtotal	100,00 €
Shipping and Handling	Free Shipping
Production	154,00 €
Order Total	254,00 €

Direct Bank Transfer

Make your payment directly into our bank account. Please use your Order ID as the payment reference. Your order won't be shipped until the funds have cleared in our account.

Cheque Payment

PayPal  [What is PayPal?](#)

PLACE ORDER

Communication between the E-commerce site and the HP WallArt designer is made through an API with PHP library OAUTH <https://code.google.com/p/oauth-php>.

8 Files

Below there are the files needed to install the HP WallArt for WooCommerce plug-in under WordPress.

- Download HP WallArt Plugin: [Download](#)
- Download WordPress: [Download](#)
- Download WooCommerce: [Download](#)
- Download Top shop theme (proposal): [Download](#)
- Download Translator (proposal): [Download](#)