

# Magento 2

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Here we describe submitting payment transactions to the Adyen payment system using our plugin for Magento2.

 This Magento2 plugin supports version 2.1 and higher. For Magento2 version 2.0 support, you can use the plugin version 1.4.6.

## Install the plugin

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### Composer

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1. Run the following composer command in the root of magento: `composer require adyen/module-payment`
2. Enable the extension in the command line in the root of magento by executing: `bin/magento module:enable Adyen_Payment`
3. Update Magento to execute the install and update scripts in the command line in the root of magento by executing: `bin/magento setup:up`
4. In your Magento backend, go to **System > Cache Management** and click the **Flush Cache Storage** button.  
If you are already logged in to your Magento backend, log out, and then log in again.

Some hosting providers including Byte are running php in CGI modus. This means that HTTP Basic Authentication, used for the notifications, is not working on default. Enable the authorisation by adding the following rules to the .htaccess file in the Magento root directory.

RewriteEngine on:

```
RewriteCond %{HTTP:Authorization} (.+)
```


```
RewriteRule .* - [E=REMOTE_USER:%{HTTP:Authorization},L]
```

For further Magento-specific details, refer to the official [Magento documentation](#).

## Setting in CA

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Before configuring the settings, make sure that the [Customer Area](#) set up is complete.

 If you don't already have a test account, read [Get started with Adyen](#).

1. Go to [Customer Area](#) and log in using your Adyen test account credentials.
2. In the Main menu, click **Account**.
3. Select the name of your merchant account.

## Configure notifications

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1. Go to **Settings > Server Communication**.
2. Click **Add** next to Standard Notification.

3. In the Transport section:
  - a. Enter your website URL followed by **/adyen/process/json**  
If you have turned off URL rewrite in Magento, you can check this by navigating to **Settings > General > Web > Search Engine Optimization**, you should use **index.php/adyen/process/json**.  
If you have **Add store code to URLs** enabled, you can check this by navigating to **Settings > System config > Web > URL options**, you should add store code in the notification URL.
  - b. Select the **Active** checkbox.
  - c. Set Method to **JSON**.
4. Under the Authentication section, enter the username and password.  
Take a note of this information, as you need it later on when configuring the Adyen plugin.
5. Click **Save Configuration**.

## Configure merchant account settings

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1. Go to **Settings > Merchant Settings**.  
The default value for Capture Delay is Immediate, you may adjust it according to your preferences.
2. Click **Submit**.

## Configure web service (ws) user

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1. Go to **Settings > Users**.
2. From the first dropdown in the upper left table cell, select **System**.
3. Click the **ws user** (ws@Company.YourCompanyCode).  
If you have not yet set a password for your ws user yet, you can do it by clicking **Generate**.  
Take a note of the password as you need it later on when configuring the Adyen plugin.
4. Click **Save**.

## Configuring your LIVE account

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1. After your merchant account is enabled on the Adyen LIVE platform, using your Adyen live account credentials log in to [Customer Area](#).
2. In the main menu, click **Account**.
3. Select your merchant account.
4. Configure the notifications, merchant account settings, and ws user following the steps described above.

## Configuring the Adyen plug-in

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Before tweaking your Adyen Payment settings in Magento, configure the default Magento cronjob:

1. Log in to **Magento Admin Panel**, go to the **Stores** menu, and select **Configuration**.
2. On the left-hand navigation sidebar, in the **Magento Admin Panel**, browse to the **Advanced** category and click **System**.
3. In the **System** area, click the **Cron (Scheduled Tasks)** section.

4. Set the **Generate Schedules Every** input field to 1.
5. Click **Save Config**.

This sets the cronjob generation time interval to 1 minute.

## Adyen Payment Configurations


1. Log in to your Magento backend to configure the Adyen plug-in.
2. Go to **Stores > Configuration** from the main menu.  
You are redirected to the general settings of Magento.
3. Select **Sales** from the left menu and then select **Payment Methods**.  
You are redirected to the page with settings for the Adyen plug-in.


## Required settings

In the **Payment Method** configuration, there are various sections related to the configuration of the Adyen plug-in.

1. Click **Adyen All-in-One Payment Solutions**
2. Click **Required Settings**.
3. Enter the information in the fields. Hovering over the question mark ( ? ) on the right of each field gives you more information about the required setting.

## Fields

Setting	Value(s)	Description
Merchant Account		<p>The merchant account identifier you want to process the (transaction) request with. Find this at the top of the screen in the <a href="#">Customer Area</a>, where you will see [YourCompanyAccount] &gt; [YourMerchantAccount].</p> <div style="border: 1px solid #f0e68c; padding: 10px; margin-top: 10px;"> <p> The merchant account is different from the company account; a company account can have one or more merchant accounts. You always have at least one company account with one corresponding merchant sub-account. For more information, see <a href="#">Account structure</a>.</p> </div>
Test /Production Mode	Test	In the test mode you must use <a href="#">test cards</a> .
	Live	
Notification Username		Set your own username and copy it over to <a href="#">Customer Area &gt; Settings &gt; Server Communication &gt; Standard Notification &gt; User Name</a> .

Setting	Value(s)	Description
Notification Password		Set your own password and copy it over to <a href="#">Customer Area</a> > <b>Settings</b> > <b>Server Communication</b> > <b>Standard Notification</b> > <b>Password</b> .
Test: Web Service Username		Find this in your <a href="#">Customer Area</a> > <b>Settings</b> > <b>Users</b> > <b>System</b> , format: <i>ws@Company.YourCompanyCode</i> . Copy and Paste the exact ws username here.  <div style="border: 1px solid orange; padding: 10px; margin-top: 10px;">  When everything is correctly configured and you receive an authentication error when testing the notifications from the <a href="#">Customer Area</a>, follow the note at the bottom of this page. </div>
Test: Web Service Password		Find this in your <a href="#">Customer Area</a> > <b>Settings</b> > <b>Users</b> > <b>System</b> . Click on your web service user and generate a new password. Copy and Paste the exact password here.
Live: Web Service Username		Find this in your <a href="#">Customer Area</a> > <b>Settings</b> > <b>Users</b> > <b>System</b> . Normally this will be <i>ws@Company.YourCompanyCode</i> . Copy and Paste the exact ws username here.
Live: Web Service Password		Find this in your <a href="#">Customer Area</a> > <b>Settings</b> > <b>Users</b> > <b>System</b> . Click on your web service user and generate a new password. Copy and Paste the exact password here.
Capture Delay	Auto Capture	Set to Immediate by default. Set to manual if you want to perform the capture of funds manually later (only affects credit cards and a few alternative payment methods). Change this setting as well in <a href="#">Customer Area</a> > <b>Settings</b> > <b>Merchant Settings</b> > <b>Capture Delay</b> . If you have selected a capture delay of a couple of days in Adyen of a couple of days keep it here on immediate
	Manual Capture	
Order status: order creation	-- Please select --	Status given to newly created orders before payment result confirmation via server notifications from Adyen.
	Pending	
Order status: payment authorisation	-- Please select --	Status given to orders after authorisation confirmed by an AUTHORISATION notification from Adyen. Note: an authorisation status via the result URL does not yet trigger this status.
	Pending	
	Processing	
Order status: payment confirmed	-- Please select --	Status given to orders after capture result is confirmed by an AUTHORISATION notification for an auto capture or CAPTURE notification for a manual capture from Adyen.

Setting	Value(s)	Description
	Processing	
Order status: order cancellation	On Hold	Status given to orders after order cancellation is confirmed by a CANCEL_OR_REFUND notification from Adyen. If orders are already invoiced, they cannot be cancelled, but will be refunded instead.
Enable debug logging	Yes	
	No	



Some hosting providers are running PHP in CGI modus. This means that HTTP Basic Authentication, used for the notifications, is not working on default. Enable the authorisation by adding the following rules to the .htaccess file in the Magento root directory.

RewriteEngine on:

```
RewriteCond %{HTTP:Authorization} (.+)
```


```
RewriteRule .* - [E=REMOTE_USER:%{HTTP:Authorization},L]
```

Also, some hosting providers are blocking Bots, which may block our notifications from being sent correctly.

If you are using Byte as your hosting provider you can see more information about that and how to allow bots on [their website](#).

## Advanced settings

In the **Payment Method** configuration, there are various sections related to the configuration of the Adyen plug-in.

1. Click **Adyen All-in-One Payment Solutions**. There are various sections related to advanced settings.
2. Hovering over the question mark (  ) on the right of each setting field gives you more information about the required setting.

These settings allow you to set up and configure the following features:

- [Billing agreement](#)
- [Magento order process](#)
- [Payment notifications in Magento](#)

### Billing agreement

In the **Payment Method** configuration, there are various sections related to the configuration of the Adyen plug-in.

1. Click **Adyen Ali-in-One Payment solutions**.
2. Click **Advanced: Billing Agreements**.



- Enter the information in the fields. Hovering over the question mark ( ? ) on the right of each field gives you more information about the required setting.

## Fields

Setting	Value(s)	Description
Agreement Type	NONE	When enabled, users can save their credit cards and their SEPA authorisations. <b>ONECLICK</b> requires the input of the CVC for subsequent payments, while <b>RECURRING</b> does not.
	ONECLICK	
	RECURRING	<b>ONECLICK:</b> The shopper opts in to storing their card details for future use. The shopper is present for the subsequent transaction, for cards the security code (CVC/CVV) is required.
	ONECLICK, RECURRING	<b>RECURRING:</b> Payment details are stored for future use. For cards, the security code (CVC/CVV) is not required for subsequent payments. <b>ONECLICK,RECURRING:</b> Payment details are stored for future use. This allows the use of the stored payment details regardless of whether the shopper is on your site or not.

## Magento order process

In the **Payment Method** configuration, there are various sections related to the configuration of the Adyen plug-in.

- Click **Adyen Ali-in-One Payment solutions**.
- Click **Advanced: Magento Order Processing**.
- Enter the information in the fields. Hovering over the question mark ( ? ) on the right of each field gives you more information about the required setting.

## Fields

Setting	Value(s)	Description
Use manual-capture for PayPal	Yes	This option is set to <b>No</b> by default.
	No	If you have requested with <a href="#">support</a> for your PayPal integration to be on manual-capture, set this to <b>Yes</b> .
Use auto-capture for OpenInvoice payments	Yes	Applicable for Klarna and Afterpay only.
	No	OpenInvoice is set to <b>Manual capture</b> by default. If you want auto capture, contact <a href="mailto:magento@adyen.com">magento@adyen.com</a> .
	-- Please select --	Select only status assigned to state complete. Leave empty to use the same as normal products.



Setting	Value(s)	Description
Order status: payment capture (virtual products)	Completed	
Order status: pending Bank Transfer/SEPA orders	-- Please select --	By default, Adyen does not inform your Magento store about pending payments. If you want these notifications to be received, Go to <a href="#">Customer Area</a> > <b>Server Communication and add BankTransfer Pending Notification and Direct-Debit Pending Notification.</b>
	Pending Payment	
Send order confirmation email for Bank Transfer/SEPA	Yes	Send a confirmation mail after Bank Transfer/SEPA is placed (not yet paid). If you want these notifications to be received, Go to <a href="#">Customer Area</a> > <b>Server Communication and add BankTransfer Pending Notification and Direct-Debit Pending Notification.</b>
	No	

### Payment notifications in Magento

In the Payment Method configuration, there are various sections related to the configuration of the Adyen plug-in.

1. Click **Adyen Default Settings**.
2. Click **Advanced: Adyen Payment Notifications**.
3. Enter the information in the fields. Hovering over the question mark ( ? ) on the right of each field gives you more information about the required setting.

### Fields

Setting	Value (s)	Description
Ignore refund notification	Yes	If the refund is processed on the Adyen payments platform, a refund notification is sent to Magento, that automatically creates a credit memo.
	No	Enabling this setting does not process the received REFUND notification.
Allow multiple merchants	Yes	Allow notifications sent from other Adyen merchant accounts.
	No	Ensure that the notification user name and password should be the same for all the merchant accounts.

### Set up HPP payment methods

You can use our Magento integration to handle payments through our [HPP solution](#).

Before you configure the payment methods you want to use, you need to take care of a few preliminary steps to ensure the process runs smoothly.

### Set things up

If you want to handle your payments through our Hosted Payment Pages (HPP), you need to use the Adyen HPP option in the plug-in.

This gives you access to the wide range of available payment methods that we support and can be set up for your merchant account.

For this to work, set up a skin in the [Customer Area](#).

### Define the skin in the Adyen CA

1. Go to [Customer Area](#) and log in with your test account credentials.
2. In the main menu click **Skins**.
3. If no skin was configured yet, do so by clicking the button **Create a new skin**.
4. Click **HMAC with SHA-256 and new signing algorithm (Recommended)**.
5. Enter a description for your skin, e.g. Magento Skin.  
Take a note of the *Skin Code*, as you need it later on when configuring the plug-in.
6. Click on **generate new HMAC key** for the Test and Live platform.  
Take a note of these HMAC keys, as you need it later on when configuring the plug-in.
7. Leave the **Result URLs** and **Continue-to URLs** empty

### Configure HPP in the Adyen plug-in

1. Open the Adyen HPP panel in the Magento backend (under **Stores > Configuration > Sales > Payment Methods > Hosted Payment Page (HPP) integration**).
2. Use the information which you previously noted when preparing the skin in the [Customer Area](#) to enter the information in the fields.

Setting	Value (s)	Description
Enabled	Yes	If you want to enable the HPP payment methods, Set this option to <b>Yes</b> .
	No	
Sort Order		This is the position of the HPP payment methods during the checkout.
Skin Code		Copy and paste the skin code of the skin you want to use from Test Customer Area => Skins.
HMAC Key for Test Skin		Copy and paste the skin code of the skin you want to use from <b>Test Customer Area &gt; Skins &gt; click on [skin code] &gt; Edit &gt; HMAC for Test platform</b> .

Setting	Value (s)	Description
HMAC Key for Live		Copy and paste the skin code of the skin you want to use from <b>Test Customer Area &gt; Skins &gt; click on [skin code] &gt; Edit &gt; HMAC for Live platform.</b>

### Advanced settings

Setting	Value (s)	Description
Title		If Leave payment method selection on HPP is set to Yes, this title shows on the checkout.
Days for Delivery		Days to be added to the current date for delivery. Allowed format: Numerical.
Payment method selection on Adyen Hosted Payment Page (HPP)	Yes	If this is set to <b>Yes</b> , payment methods are not displayed at the checkout and the shopper is redirected to the Adyen HPP to make the selection.
	No	

## Setting up API credit card payments

The advantage of using this method (over card payments through the HPP) is that shoppers do not leave your website, but instead can do the card payment directly in your checkout. For this to work you should have Client Side Encryption (CSE) enabled for your merchant account. On the TEST environment the role is enabled by default.



If you are considering implementing CSE and want this to be enabled on your LIVE platform, download and fill in the [PCI Self Assessment Questionnaire \(SAQ\) A](#), then email it to the [Support Team](#).

- Make sure that you have received confirmation from the Adyen Support Team that CSE is enabled for your account
- Open the Credit Card panel in the Magento backend (under **Stores > Configuration > Sales > Payment Methods > CreditCard API integration**)
- Configure the settings. Hovering over the question mark ( ) on the right of each field will give you more information about the required setting.

### Fields

Setting	Value(s)	Description
Enabled	Yes	

Setting	Value(s)	Description
	No	If you want to enable payment by credit cards through our API, set this option to <b>Yes</b> .
Title		Title displayed for the payment method.
Sort Order		This is the position of the credit cards during the checkout.
Credit Card Types		Select the credit card type(s) that you want to show.
Enter CSE Public Key of Test Adyen Webservice User		Copy this from the <b>Test Adyen Customer Area &gt; Settings &gt; Users &gt; System (from the dropdown) &gt; [web service user] &gt; Client Encryption Public Key</b> .
Enter CSE Public Key of Live Adyen Webservice User		Copy this from the <b>Live Adyen Customer Area &gt; Settings &gt; Users &gt; System (from the dropdown) &gt; [web service user] &gt; Client Encryption Public Key</b> .
Payment to applicable countries	All Allowed Countries	When set to <b>Specific Countries</b> , this will override the allowed countries for credit card payments.
	Specific Countries	
Payment to Specific countries		Make sure that the settings in the <a href="#">Customer Area</a> match the selection here. You can set the override countries in the CA by navigating to <b>Skins &gt; [yourskincode] &gt; Payment methods &gt; pen icon &gt; Override available countries</b> .

## Setting up Adyen Stored Payment Methods

During checkout shoppers can choose to have their payment details remembered and stored for trusted websites in Adyen's highly secure platform. Adyen takes care of this process for its customers. Shoppers can then select the saved card and checkout with one-click in the Magento checkout .



Make sure you have turned on `RECURRING_CONTRACT` notification on your merchantAccount. Alternatively, contact [Adyen Support Team](#).

In the Payment Method configuration, there are various sections related to the configuration of the Adyen plug-in.

1. Click configure under the **Adyen Stored Payment Methods - Requires Adyen Credit Card** title.
2. Enter the information in the fields. Hovering over the question mark ( ? ) on the right of each field will give you more information about the required setting.

## Fields

Setting	Value(s)	Description
Enabled	Yes	This enables Adyen Stored Payment Methods.
	No	
Title		Title of the saved card option.
Sort Order		This is the position of the Stored Payment Methods during the checkout.
Recurring Payment Type	ONECLICK	With ONECLICK the shopper needs to fill in their security code for credit cards. For RECURRING, this is not needed. If you want to use RECURRING make sure you have Agreement Type (in <b>Adyen Default Settings &gt; Advance: Billing Agreements</b> ) set to RECURRING or ONECLICK,RECURRING.
	RECURRING	

## Issuing a refund in Magento

You may need to issue a refund when a payment is cancelled, or when a shopper asks to be refunded. Depending on the terms of sale, you can cancel a payment and return the partially or fully charged amount to the shopper.

## How to issue a refund in Magento

After [authorising](#) a payment and after charging the shopper, if the shopper requests a refund and they are eligible for it, you may need to return the paid amount to them.

To issue an order refund in Magento, follow these steps:

- In the **Magento Admin Panel**, go to **Sales**, and select **Orders**.
- In the order overview page, browse to the order you want to refund, then click it.
- In the **Order View** left-hand navigation sidebar, click **Invoices**.
- In the invoice overview page for the selected order, click the order invoice you need to create a refund for.
- Click **Credit Memo** on the top-right corner of the page.
- In the **New Credit Memo for Invoice** page, scroll down to the **Refund Totals** pane.
- In this pane you can define and issue a regular **Refund** or a **Refund Offline**.
  - **Refund:** This option triggers the Adyen system to automatically execute a refund for the transaction.

- **Refund Offline:** An offline refund does not trigger the Adyen system. You need to take action and carry out the refund manually, for example from the [Customer Area](#).

After a refund operation, the order status changes to **Closed**. This change is controlled by the Magento system, and we cannot influence it.

The status change does not mean that the refund was carried out successfully on our side.

If the Adyen status changes to **REFUND:TRUE**, then the refund went through successfully.



After a refund is issued, it cannot be cancelled or undone. Make sure the refund amount and any other details are correct before triggering the operation.

Refunds of payments that were done using Sofort, SEPA and OpenInvoice (Klarna & Afterpay) are only refundable after they are **Settled** in the Adyen Customer Area. When a payment is still **SentForSettle**, it is not possible to refund the payment yet.

You can view the status only in the [Customer Area](#)