

Installation & configuration

Adyen plugin for Shopware 6

Version: 1.0.0

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2. Document history

Version	Date	Editor	Comment
V.1.0.0	14.05.2020	J. Seidel	Creation of the installation instructions

3. Introduction

The Adyen payment plugin by scope01 GmbH provides functionality to handle payments through the Adyen payment service provider. As of now it supports payments with credit and debit cards, with and without the 3D secure protocol.

4. Configuration

The plugin configuration page displays two masks to enter necessary information for setting up the connection to Adyen and a dropdown select of which configuration to use. Small help texts will appear when you hover over the question mark symbols. The necessary information needed can be found in your Adyen account details.

The screenshot displays the configuration interface for the Adyen plugin. It is organized into three main sections:

- Sales Channel:** A dropdown menu currently set to "All Sales Channels".
- Ayen Payment Configuration:** A dropdown menu labeled "Choose test or live environment" currently set to "Test".
- Test Configuration:** A series of text input fields, each with a blue question mark icon to its right for help. The fields are:
 - Test API Key
 - Test Merchant Account Name
 - Test Origin Key
 - Test Library Location
 - Test Notification Key
 - Test Merchant Country
 - Test Merchant Country Code
 - Test Localization Code
 - Test Merchant ID

At the bottom of the configuration area, there is a "Live Configuration" section, which is currently empty.

API key: The API key is generated for a defined webservice user in the Adyen backend. This key is comparable with a username / password authentication and is a mandatory field in the plugin configuration.

Dealer account Name: This is the name of the merchant account in the Adyen backend.

Origin key: The customer types in the data of its credit card in the web shop. Adyen provides a secure JavaScript real-time encryption, if the user types in the credit card data. Every time the card data is handled encrypted by the web shop / Adyen. If you want to use this feature, you have to generate a public key for the JavaScript.

Library location: This is the URL to Adyen frontend encryption service for secured fields.

Notification key: Key for securing Adyen endpoint on Shopware side. This endpoint is used to send asynchronous notifications from payment to Shopware.

Country of your merchant account: Country of merchant account.

In order to provide users with the option to pay with payment methods handled by this plugin, the according payment methods must also be enabled in the sales channel:

General Settings

Name * <input type="text" value="Demoshop"/>	
Entry point main navigation * <input type="text" value="Catalogue #1"/>	Navigation levels <input type="text" value="2"/>
Entry point footer navigation <input type="text"/>	
Entry point service navigation <input type="text"/>	
Customer group <input type="text" value="Standard customer group"/>	
Payment methods <input type="text" value="Cash on delivery"/> <input type="text" value="Credit & Debit Card"/>	Default payment method * <input type="text" value="Cash on delivery"/>
Shipping methods <input type="text" value="Express"/> <input type="text" value="Standard"/>	Default shipping method * <input type="text" value="Express"/>
Countries <input type="text" value="Germany"/>	Default country * <input type="text" value="Germany"/>
Currencies <input type="text" value="Euro"/>	Default currency * <input type="text" value="Euro"/>
Languages <input type="text" value="Deutsch"/>	Default language * <input type="text" value="Deutsch"/>

5. Handling payments in sales channel

If the according payment methods are enabled in the sales channel, the customer will have the option to choose the provided payment options in the checkout process.

The screenshot displays a checkout interface with a modal window titled "Zahlungsart ändern" (Change payment method). The modal contains two radio button options: "Credit & Debit Card" (selected) and "Nachnahme" (Payment on receipt of goods). Below the options are two buttons: "Speichern" (Save) and "Abbrechen" (Cancel). The background shows the checkout summary with a total of 800,00 € and a "Zahlungspflichtig bestellen" (Order with payment obligation) button.

Aktuelle Auswahl: Credit & Debit Card

Zahlungsart ändern

Versandart

Aktuelle Auswahl: Express

Versandart ändern

Zahlungsart ändern

Credit & Debit Card
Credit & Debit Card

Nachnahme
Zahlung bei Erhalt der Ware.

Speichern **Abbrechen**

Gesamtsumme 800,00 €*

Gesamtsumme ohne MwSt. 672,27 €

zzgl. 19 % MwSt. 127,73 €

Zahlungspflichtig bestellen

* Alle Preise inkl. gesetzl. Mehrwertsteuer zzgl. Versandkosten und ggf. Nachnahmegebühren, wenn nicht anders beschrieben

Realisiert mit Shopware

When proceeding, the user will be prompted with a form to enter payment credentials. The button for executing the transaction will only be clickable, if the entered credentials are valid.

Zusammenfassung

Gesamtsumme	800,00 €
Gesamtsumme ohne MwSt.	672,27 €

Kartenummer

1234 5678 9012 3456

Ablaufdatum

MM/JJ



CVC / CVV

123

Zahlungspflichtig bestellen

Zurück zur Kasse

If the credentials belong to a card with 3D secure, the user will be redirected to the site of the card issuer to validate the payment. After successful validation the user will be redirected to the standard checkout-success page of Shopware, with an overview of the purchase.

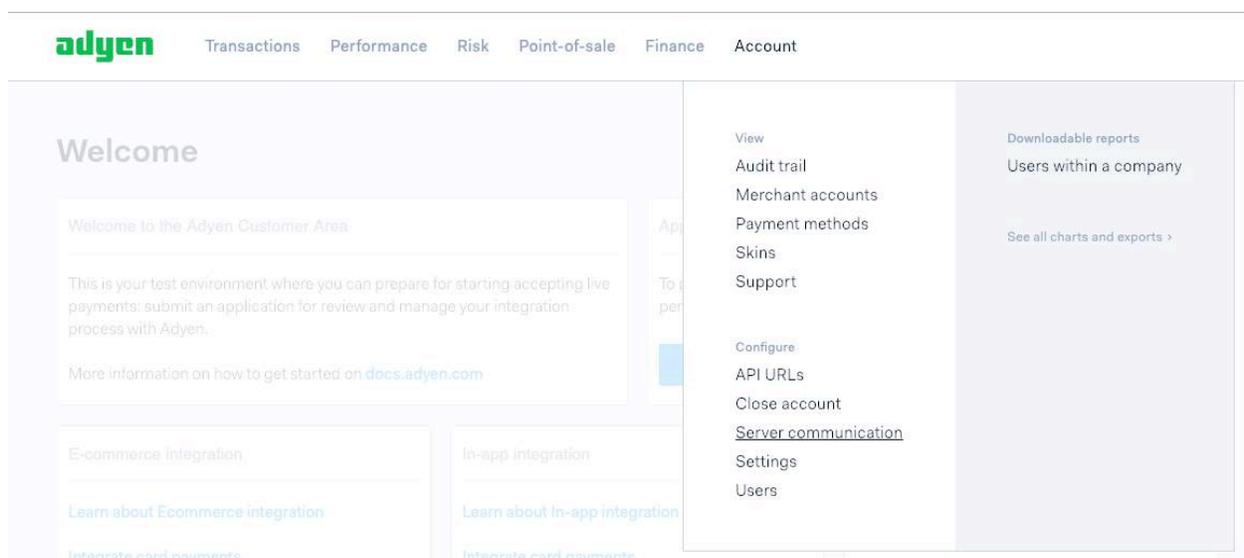
6. Logfiles

Informational and error logs will be created during the payment process. The logs can be found in the directory `/var/log/`. The logs created by this plugin will be named by the format of `YYYY-MM-DD-payment.log`.

7. Configuration of the Adyen Backend

The plugin needs a number of configurations to communicate with the Adyen API. This chapter describes, how to get the necessary informations from the Adyen Backend.

All needed Configurations can be found in the Account Menu:



7.1. Create New Web Service Account

Click on the Menu entry Users, click Add new user Button

- Select the User Type "Webservice"
- Set a password
- Press "save" at the bottom of the form.

The User is created successfully and you are forwarded to the form.

- Edit Allowed User IP Range
 - add a list of IPs which are allowed to use the webservice. For example your webserver with shopware
- Activate the following roles
 - API Clientside Encryption Payments role
 - Checkout webservice role
 - Merchant PAL Webservice role
 - Merchant Recurring role
- Accounts
 - Grand Access to the merchant Account to which the API calls should be processed (min. 1)

Hint: If one or more options on this screenshot does not appear, please contact Adyen support to activate the internal configuration for using a webservice.



Edit Web Service User

User Account Details

User Name: ws@Company.MoreperformGmbH

Active:

Authentication

To authenticate with this webservice user, please use either the API Key or the Basic Authentication.

API Key

API Key:7gv53

[Generate New API Key](#)

Basic Auth

Password:

Retype Password:

[Generate Password](#) [Generate POS Password](#)

Last Password Change: 2018-10-16 13:12:30 CEST

Client Certificate (DN):

Client-Side Encryption

Client Encryption Public Key:10001E030E9E97C1079C0269079C5B60D0C521E...

Hosted Client-Side Encryption

Library Version: Always latest version (changes will be applied after you click save)

Library location: https://test-adyen.com/bricks/a/80153967595...
The V0_1_X_CSE library is available, running library version 0_1_18.

Library token (aka "PublicKeyToken"): 8015396759571044

Origin key

Generate a token for the domain the website using securedFields will be running on:

https://www.test-merchant.com [Generate Origin Key](#)

generated-origin-key

Edit Allowed User IP Range

Add IP address: 0 . 0 . 0 . 1

Allow: 32 (this IP address only)

[Allow](#)

IP Address	Delete
178.250.10.101/32	
213.157.15.182/32	
80.151.60.27/32	

Roles and Associated Accounts

[Roles](#) [Accounts](#) [Search](#)

- API Clientside Encryption Payments role
- Checkout webservice role
- Merchant PAL Webservice role
The Merchant PAL webservice role enables the merchant to submit transactions through the Hosted Payment Pages (HPPs), and modifications via the SOAP interface. This role should not be disabled as it will prevent the merchant from processing transactions.
- Merchant Recurring role
The Merchant recurring role enables the merchant to store payment details on the Adyen platform and use these to perform recurring transactions.

[Save](#)

7.2. Getting needed Plugin Configuration Values from Adyen Backend

7.2.1.API key

- Click on the Menu entry Users
- Select the User which "user type name" names Web Service.
- Have a look at the screenshot



Edit Web Service User

User Account Details

User Name: ws@Company.MoreperformGmbH

Active:

Authentication

To authenticate with this webservice user, please use either the API Key or the Basic Authentication.

API Key

API Key:
.....7gv53

[Generate New API Key](#)

Basic Auth

Password:
Retype Password:

[Generate Password](#) [Generate POS Password](#)

Last Password Change: 2018-10-16 13:12:30 CEST

Client Certificate (DN):

Client-Side Encryption

Client Encryption Public Key: 10004E930E9E97C1078C0269078C5B60D0C521E...

Hosted Client-Side Encryption

Library Version: Always latest version
(changes will be applied after you click save)

Library location: https://test.adyen.com/openssl/00153967595...
The V0_1_X CSE library is available, running library version 0_1_18.

Library token (aka "PublicKeyToken"): 8015396759571044

Origin key

Generate a token for the domain the website using securedFields will be running on:

https://www.test-merchant.com [Generate Origin Key](#)

generated-origin-key

Edit Allowed User IP Range

Add IP address: 0 . 0 . 0 . 1

Allow: 32 (this IP address only)

[Allow](#)

IP Address	Delete
178.250.10.101/32	
213.157.15.182/32	
80.161.60.27/32	

Roles and Associated Accounts

Roles Accounts

Search roles Search

- API Clientside Encryption Payments role
- Checkout webservice role
- Merchant PAL Webservice role
The Merchant PAL webservice role enables the merchant to submit transactions through the Hosted Payment Pages (HPPs), and modifications via the SOAP interface. This role should not be disabled as it will prevent the merchant from processing transactions.
- Merchant Recurring role
The Merchant recurring role enables the merchant to store payment details on the Adyen platform and use these to perform recurring transactions.

[Save](#)

- Click "Generate New API Key"
- Store the shown Key to the plugin configuration Field

7.2.2. Live url prefix

Click on the menu entry API URLs. Have a look at the following screenshot

The screenshot displays the Adyen merchant configuration interface for 'MoreperformGmbH'. The main heading is 'Configure server communication settings for MoreperformGmbH'. Under the 'Standard Notification' section, the 'Transport' tab is active, showing the following settings:

- URL:
- SSL Version:
- Accept expired:
- Accept self-signed:
- Accept untrusted root Certificates:
- Active:
- Service Version:
- Method:
- Populate SOAP Action header: (Note: Some SOAP servers, notably .NET require a xmlns:SOAP Action header)

Below the transport settings, the 'Authentication' section contains:

- User Name:
- Password:

The 'Test Notifications' section features a 'Select all' button and a list of notification types with toggle switches:

- AUTHORISATION:
- BOGUS:
- CHARGEBACK_REVERSED:
- NOTIFICATIONTEST:
- ORDER_CLOSED:
- ORDER_OPENED:
- PAYOUT_REVERSED:
- PAYOUT_THIRDPARTY:
- REFUNDED_REVERSED:
- REFUND_WITH_DATA:
- REPORT_AVAILABLE:
- CUSTOM:

At the bottom, there is a 'Text Configuration' section with a warning: 'Please note that among the "Test Configuration" button does not save your configuration. All server communication should be successful.' A green 'Save Configuration' button is located at the very bottom of the page.

In the test system we don't have a URL prefix. In your live account, all given API URLs have a Prefix:

https://<YOUR_PREFIX>-pal-live.adyenpayments.com OR https://<YOUR_PREFIX>-checkout-live.adyenpayments.com

The Prefix must be the same in both cases.

Save this prefix to your configuration

Dealer Accountname

The dealer Account Name is the Name of the Merchant Account which has granted Access with the given Webservice User. Have a Look in the tab Accounts on user detail page



Edit Web Service User

User Account Details

User Name: ws@Company.MoreperformGmbH

Active:

Authentication

To authenticate with this webservice user, please use either the API Key or the Basic Authentication.

API Key

API Key:
.....7gv53

[Generate New API Key](#)

Basic Auth

Password:
Retype Password:

[Generate Password](#) [Generate POS Password](#)

Last Password Change: 2018-10-16 13:12:30 CEST

Client Certificate (DN):

Client-Side Encryption

Client Encryption Public Key: 10004E930E9E97C1078C0269078C5B60D0C521E...

Hosted Client-Side Encryption

Library Version: Always latest version
(changes will be applied after you click save)

Library location: https://test.adyen.com/api/cse/js/80153967595...
The V0_1_X CSE library is available, running library version 0_1_18.

Library token (aka "PublicKeyToken"): 8015396759571044

Origin key

Generate a token for the domain the website using securedFields will be running on:

https://www.test-merchant.com [Generate Origin Key](#)

generated-origin-key

Edit Allowed User IP Range

Add IP address: 0 . 0 . 0 . 1

Allow: 32 (this IP address only)

[Allow](#)

IP Address	Delete
178.250.10.101/32	
213.157.15.182/32	
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Roles and Associated Accounts

[Roles](#) [Accounts](#)

Search roles: [Search](#)

- API Clientside Encryption Payments role
- Checkout webservice role
- Merchant PAL Webservice role
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- Merchant Recurring role
The Merchant recurring role enables the merchant to store payment details on the Adyen platform and use these to perform recurring transactions.

[Save](#)

Hint: In most cases logged in user is the same, so you can see the merchant account name in the Adyen backend in the top right side

7.2.3.Origin key

- Click on the Menu entry Users
- Select the User of the given list, that is from type Web Service.
- Go to the section Origin key



Edit Web Service User

User Account Details

User Name: ws@Company.MoreperformGmbH

Active:

Authentication

To authenticate with this webservice user, please use either the API Key or the Basic Authentication.

API Key

API Key:
.....7gv53

Generate New API Key

Basic Auth

Password:
Retype Password:

Generate Password **Generate POS Password**

Last Password Change: 2018-10-16 13:12:30 CEST

Client Certificate (DN):

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Library location: https://test.adyen.com/openssl/00153967595...

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Origin key

Generate a token for the domain the website using securedFields will be running on:

https://www.test-merchant.com **Generate Origin Key**

generated-origin-key

Edit Allowed User IP Range

Add IP address: 0 . 0 . 0 . 1

Allow: 32 (this IP address only)

Allow

IP Address	Delete
178.250.10.101/32	
213.157.15.182/32	
80.161.60.27/32	

Roles and Associated Accounts

Roles Accounts

Search roles Search

- API Clientside Encryption Payments role
- Checkout webservice role
- Merchant PAL Webservice role
The Merchant PAL webservice role enables the merchant to submit transactions through the Hosted Payment Pages (HPPs), and modifications via the SOAP interface. This role should not be disabled as it will prevent the merchant from processing transactions.
- Merchant Recurring role
The Merchant recurring role enables the merchant to store payment details on the Adyen platform and use these to perform recurring transactions.

Save

Type in the frontend domain with protocol (HTTP/HTTPS) and NO trailing slashes. For example <https://store.leica-camera.com>

Hint: This case is used for each country because we only need the domain no sub paths

Store the generated Key to your Plugin configuration

7.2.4. Library location

This value is not dependent from the Account, only from the Live Mode Flag in Plugin configuration:

Testmode: <https://checkoutshopper-test.adyen.com/checkoutshopper/sdk/3.1.0/adyen.js>

Livemode: <https://checkoutshopper-live.adyen.com/checkoutshopper/sdk/3.1.0/adyen.js>

Notification key

For asynchronous transactions we have to secure our endpoint for adyen with a random secure key. This key must be added in Adyen backend. So generate a random key and store it to configuration. For example use <https://randomkeygen.com/> and use a key in the section CodeIgniter Encryption Keys

8. Support & Demo

Do you have any questions or you would like to have a demo?

Please feel free to contact us:

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