

# Configuration with Postman Collection: APM via Adyen in Hosted Fields UX Pattern

## Purpose of this document

This document can be used for configuring Adyen Hosted Fields with APM.

The postman collection source is Gateway Stage system and the target could be stage environment or other tenants.

## 1. Set up Adyen Gateway

Follow the instructions in the Help Center to set up the gateway.

[Setting Up Gateway - SAP Help Portal](#)

## 2. Export postman collection from Source System (Stage)

### 2.1 Overview

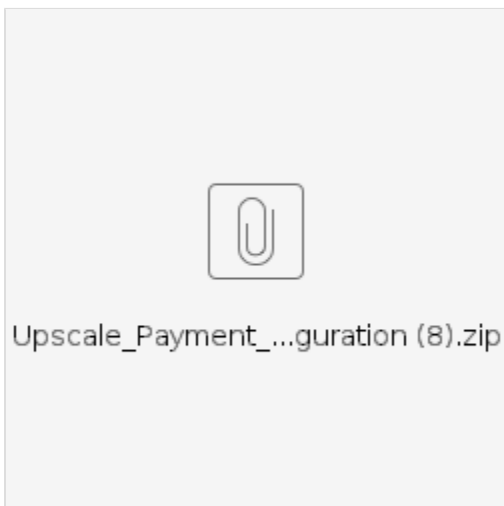
After development implementation, the merchant account configuration is done in the gateway stage system. You can then export the postman collection scripts from the gateway stage system, and adjust them with the correct parameter values, and import them to the target tenant environment.

### 2.2 Download Postman Collection Steps (optional)

- In the gateway stage environment, go to **Settings ->Payment**.
- Open the merchant account **Adyen Hosted Field APM**.
- Export the postman collection from the gateway stage system.
- A zip file with the name Upscale\_Payment\_Mapping\_Configuration.zip will be exported.

### 2.3 Directly copy this file to your local drive

You can use the following zip file:



## 3. Create Merchant Account in Target Tenant

- Log on to the target tenant.
- Create a merchant account.

**SAP Upscale Commerce**

**Payments**

Gateway	Type	Test	Integration	Frequency	Merchant
Gateway JusPay	Payment gateway	Test		3, every 3 days	Merch
Stripe	Payment gateway	Test	divStripeAuto	3, every 3 days	Merch
Mocky	Payment gateway	Test	Mocky	3, every 3 days	Merch
Nexi	Payment gateway	Test	divNexi	3, every 3 days	Merch
Cybersource 2.0	Payment gateway	Test	cyber1	3, every 3 days	Merch
Manual Payment Test	Payment gateway	Bank Transfer,Cash On ...	Demo	3, every 3 days	Merch
Gateway Adyen (Default)	Payment gateway	Test	divAdyen, adyen1	3, every 3 days	Merch
Klarna Checkout	Payment gateway	Klarna Checkout Method	Klarna Checkout	3, every 3 days	Merch
Adyen Hosted Fields	Payment gateway	Test	Adyen Hosted Fields Export	3, every 3 days	Merch
Stripe_Deferred Captur...	Payment gateway	Test	divStripe	3, every 3 days	Merch
Cash On Delivery	Payment method	- -	worldPay1	3, every 3 days	Merch
Mollie	Payment gateway	Test		3, every 3 days	Merch
Klarna payment method	Payment method	- -	Klarna payment method	3, every 3 days	Merch
Adyen Hosted Field Apm	Payment gateway	klarna_US for Adyen HF,...	Klarna payment method, ...	3, every 3 days	Merch
PayPal	Payment method	- -	PayPal	3, every 3 days	Merch

**Add merchant account**

Account name \*

Payment integration

Adyen | **Open payment framework - gateway**

Open payment framework - payment method

Adyen

Barclaycard Smartpay

Cybersource

Once you turn your merchant account configuration to live mode, you cannot revert to test mode.

**Settlement attempts**

Number of attempts

3

Retry payment capture

☒ Number of days ☐ Day of week

Retry every

3

**Division assignment**

Division - Optional

A division can only have a single merchant account configuration. If a division does not have a merchant account assigned to it, it uses the default account. You can only have one merchant account without division.

Make default payment gateway

- In the new quick creation page above, make sure the Payment Integration is set to **Open payment framework – gateway**.
- enter the Payment gateway name. Note that if Google pay is integrated, you need to provide the exact gateway ID in Google pay.
- Assign the division.
- For the alternative payment method assignment, you can make the assignment once an alternative payment method is created.

## 4. Create Payment Methods in Stage

### 4.1 Purpose

In this configuration, these payment methods are supported via gateway Adyen in Hosted Field UX pattern.

### 4.2 Steps

- Go to your merchant account in Adyen Portal, and configure Payment Methods for your account.

**adyen** TEST

Transactions Performance Risk Point of sale Finance **Account**

Search payments

**Configured Payment Methods for SAPCOM**

Configured currency: Choose one or more

Payment method: Choose one or more

Settlement type: Choose one or more

Method	Logo	Brandcode	Configured Currencies	Available Co
MasterCard		mc	ANY	ANY

**Payment methods**

View

Audit trail

Merchant accounts

Payment methods

Skins

Support

Configure

API credentials

API URLs

Checkout

Close account

Pay by Link

Report columns

Settings

Users

Webhooks

Downloadable reports

Users within a company

See all charts and exports >

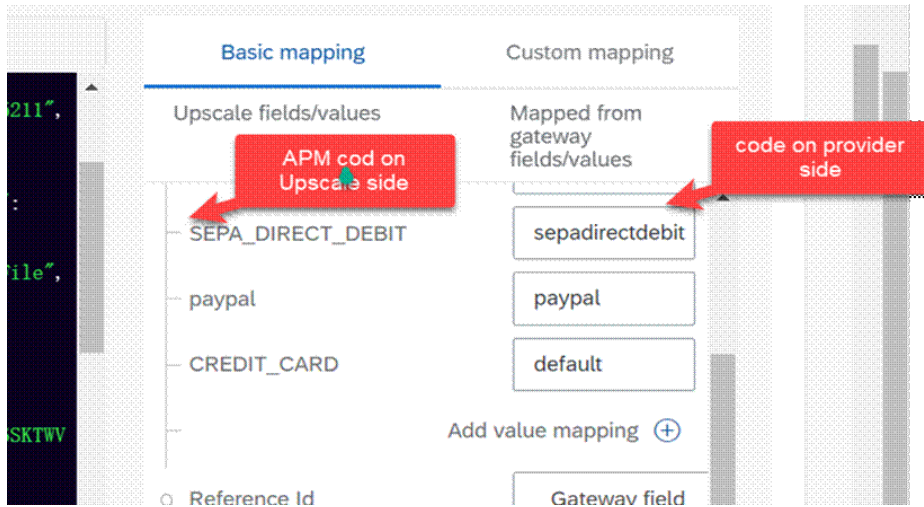
Constraints

card allowed : a minimum transaction value of GBP 0.02 > > >

VISA visa ANY ANY ACTIVE none none card allowed : a minimum transaction value of GBP 0.02 > > >

- Then navigate to **Settings ->Payment** in Upscale Workbench.
- Go the **Alternative Payment Method** tab, and create an Alternative payment method (APM).
- In the APM creation page, specify the following:

1. APM code: It is one identifier of one method and just needs to be unique on Upscale side. Mapping from provider to Upscale will be done to make sure the method code of provider can be linked to Upscale side.



1. Specify an APM name.
2. Set **APM Type**.
3. Set the **Settlement Method** per the documentation.
4. Consumer facing assets: specify the **APM display name**.

- Some APM configuration examples:

Promotions

Order Management

Customer Service

Customers

Store Operations

Payment Transactions

Inventory

Continuity Programs

Order Reasons

Settings

Settings

Consumer Applications

Division

Facebook

Fulfillment

General

Payment

- Go back to your merchant account to assign the APM with the one you just created.

**Authorization settings**

Authorization time out days

7

**Division assignment**

Division - *Optional*

Klarna payment method x Adyen Hosted Fields Apm x

A division can only have a single merchant account configuration. If a division does not have a merchant account assigned to it, it uses the default account. You can only have one merchant account without division.

**Make default payment gateway**

☐ Make default

If a division does not have a merchant account assigned to it, it uses the default account.

**Alternative payment method assignment**

Klarna for Adyen HF x SEPA Direct Debit x AliPay x

klarna\_US for Adyen HF x PayPal x

You cannot assign the APMs with the same code to one merchant account.

## 5 Configure the Merchant Account Just Created

### 5.1 Steps

- Navigate to the **Merchant account** tab, and locate the target merchant account, and click **Configure**.

SAP Upscale Commerce						
Mobigram		Experiences	Editions	Commerce operations	Configuration	en-US
Merchant account		Alternative payment method		+ Merchant account		
Gateway WorldPay	Payment gateway	Test	worldPay1	Merchant ID: 7253a17d3a...	Co	
Nexi	Payment gateway	Test	divNexi	Merchant ID: 00033034	Co	
Cybersource 2.0	Payment gateway	Test	cyber1	Merchant ID: caastest	Co	
Manual Payment Test	Payment gateway	Bank Transfer...	Test	Demo	Merchant ID: 12345	Co
Klarna Checkout	Payment gateway	Klarna Payme...	Test	Klarna Checkout	Configure	Co

- Specify the merchant ID, which is the merchant ID from your Adyen merchant account that is used to take payments.

Adyen Hosted Field Apm

General configuration

- Merchant ID
- Variables (optional)
- Settlement method
- Client allowed domain list

Authorization

- Front-end component configura...

Authorization reversal

- Request

Settlement

- Request

Refund

- Request

Re-authorization

- Request

Notification

- Notification general
- Authorization notification
- Authorization reversal notification
- Settlement notification
- Refund notification

Apple Pay

**Merchant ID**

Merchant ID

The Merchant ID is a ur  
your Payment Gateway

**Variables -Optional**

Key	Value	
allow3DS2	true	<input type="checkbox"/> Hide value
checkoutPaymentHost	checkout-test.adyen.com	<input type="checkbox"/> Hide value
merchantCode	SAPCOM_STAGE_GATEWAY	<input type="checkbox"/> Hide value
serviceVersion	v67	<input type="checkbox"/> Hide value
clientKey	*****	<input checked="" type="checkbox"/> Hide value

Use variables to store v  
mappings. Examples ar  
When you change the v  
everywhere you referen  
For variables of a sensiti  
you can flag them as no  
Variables can be referen  
['vars.variable\_key'] }).

Note: To get the Merchant account, log in to Adyen Portal and get the merchant Account code.

adyen TEST Transactions Performance Risk Point of sale Finance Account

Configured Payment Methods for SAPCOM

Configured currency: Choose one or more Payment method: Choose one or more Settlement type: Choose one or more

Method	Logo	Brandcode	Configured Currencies	Available Co
MasterCard		mc	ANY	ANY

View

Audit trail

**Merchant accounts**

Payment methods

Skins

Support

Configure

API credentials

API URLs

Checkout

Close account

Payment link

Downloadable reports

Users within a company

See all charts and exports >

Constraint: card allowe

- After entering and saving the Merchant ID, the account group and account ID are generated and shown in the URL.

General configuration

- Merchant ID
- Variables (optional)
- Settlement method
- Authorization
- Front-end component configura...
- Authorization reversal
- Request
- Settlement
- Request
- Refund
- Request
- Re-authorization
- Request
- Notification

Merchant ID

Merchant ID

d1d1d1d

The Merchant ID is a unique account reference assigned to you by your Payment Gateway.

Save

Variables -Optional

Key	Value
Key	Value

Hide value

Add key/value pair

Use variables to store values that are repeated throughout your mappings. Examples are user, account IDs or passwords. When you change the variable value here, it will be reflected everywhere you referenced it. For variables of a sensitive nature such as passwords or secret keys, you can flag them as

- Copy the account group ID and account ID, which will be used in your Postman collection.

## 6. Configuration in Adyen Portal

### 6.1 Steps

- Log on to [Adyen Portal](#).
- Go to **Webhooks** to configure webhook.

adyen TEST

Transactions Performance Risk Point of sale Finance Account

Merchant account

Search accounts

Also show closed accounts

Account code

Caastest

LoR-OPF-Account

OPF-SRE-DYNATRACE-PROD

OPF\_AUTO\_PROD\_US

OPF\_PROD\_EU\_AUTO

OPF\_TEST

OPF\_TEST\_1

View

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Account

1. Add **Standard Notification**.

Edit & TestAdd

2. Enter the URL that receives the notifications. To get the URL, log on to Upscale, go to the **Notification General** section of your merchant account, copy the URL for notification as shown below.

### Standard Notification

## Upscale Merchant Account

Notifications will be sent to this URL (if set to Active). When we send a SOAP message, [this WSDL](#) specification is used.

General configuration

Merchant ID  
Variables (optional)  
Settlement method  
Client allowed domain list

Authorization

Front-end component configura...

Authorization reversal

Request

Settlement

Request

Refund

Request

Re-authorization

Request

Notification

Notification general

Notification general configuration

Configure the server-to-server notifications to process transaction events triggered by the payment gateway. For redirect flows (iFrame/Hosted Page), m... configure all specified notification types.

URI for notification

https://gatewaystage-approuter-caas2-sap-stage.cfapps.us10.hana.ondemand.com/consumer/payment-service/gateway/notification/

Content type

application/json

Authentication method

Method name	Type	Variable
No Authentication method added		

Add method

Notification message payload pre-processing method - Optional

Method name

3. Set up the basic authentication, and note down the basic authentication user name, password, which will be used in postman collection. be sure to void space to the user name.

Authentication

Please protect your notification endpoints by setting up basic authentication.

User Name

Password

4. Generate the **HMAC key**, you should note it down right at the time you generate the key, which will be used as an input in Postman collection environment variable.



Password

Additional Settings

Select all

Add Acquirer Result

Add Capture Reference To  
Dispute Notification

Add Payment Account  
Reference

Add Raw Acquirer Result

HMAC Key (HEX Encoded)

Generate new HMAC key

Use HMAC key of another account

Not configured yet

We advise you to enable HMAC in order to prevent malicious notifications.

Include API

5. Make sure you set the configuration to **Active**. Otherwise, the order in Upscale will always be in **Pending** status.

## Transport

URL

SSL Version

Accept expired ☐

Accept self-signed ☐

Accept untrusted Root Certificates ☐

**Active** ☐

Service Version

Method

Populate SOAP Action header ☐ (Some SOAP servers, notably .NET require a non-blank SOAP Action header)

Notifications will be sent to this URL (if set to Active). When we send a SOAP message, [this WSDL specification](#) is used.

6. Save the changes.

7. Test the configuration by clicking the **Test configuration** link, if it's 401, make sure the basic authentication credential and HMAC are correct.

- Configure web service users

1. Go to API credentials

- Transactions
- Performance
- Risk
- Point of sale
- Finance
- Account

## API credentials

Create and manage API credentials to connect to the Adyen backend. [Learn more](#)

Active Inactive All

Username	Type	Accounts
report@Company.SAPAccount	Reporting	SAPAccount
sftpreport_853638@Company.SAPAccount	Reporting	SAPAccount
ws@Company.SAPAccount	Web Service	SAPCOM_TEST, SAPCOM_STAGE_QA
ws_155476@Company.SAPAccount	Web Service	SAPAccount
ws_282999@Company.SAPAccount	Web Service	SAPAccount, SAPCOM TEST

- View
- Audit trail
- Merchant accounts
- Payment methods
- Skins
- Support
- Configure
- API credentials**
- API URLs
- Checkout
- Close account
- Pay by Link
- Report columns
- Settings
- Users
- Webhooks

Downloadable reports

Users within a company

See all charts and exports

2. Generate **API Key** if you don't have one, note down the **API Key** and **Client Key**.

**Note:** Once the API Key is generated, change it only when necessary, as this API key might be shared by different merchant accounts, you have to make sure the API Key is updated in all the corresponding areas.

User Account Details

User Name

ws@Company.SAPAccount

Note

Short description of the Web Service user

Active

☒

Authentication

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

API Key

API Key

.....m843g

Generate New API Key

To authenticate from a client application

Client Key

Client Key

test\_7MSJX6KWXJFUFJYRMAHFFQ5OEXONJ5W

Generate New Client Key

Client-Side Encryption

Client Encryption

Public Key

10001C89EC1D32846F6BF221E7D380A38BD42EB...

Hosted Client-Side Encryption

Library Version

Use V0\_1\_18

(changes will be applied after you click save)

Library location

https://test.adyen.com/hpp/cse/js/80155867303...

The V0\_1\_X CSE library is available, running library version 0\_1\_18.

Library token

8015586730392342

(aka "PublicKeyToken")

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

Demo Server

3. Add your PWA application as allowed origins. If it is not configured, an error message will show invalid origin when selecting credit card.

ver API Key (x-demo)

11BF5599BBD4966A1F7542FF2443503AA2872CF9E7FE62860402B5B51

-server-api-key)

DAE19910C15D5B0DBEE47CDCB5588C48224C6007

Allowed origins

List of allowed origins:

https://www.test-merchant.com

Add Origin

http://localhost:3000

http://localhost:4200

https://adyen-hf-stage.cfapps.us10.hana.ondemand.com

## 6. Edit and execute the Postman Collection

### 6.1 Steps

1. Extract the Postman collection zip file. It is recommend to edit both of the files, and change the names so that you can easily identify them in Postman.
2. Open the Postman.
3. Import the two files at the same time to Postman.

Name	Date modified	Type	Size
environment_configuration.json	5/7/2021 6:06 AM	JSON File	3 KB
mapping_configuration.json	5/7/2021 6:06 AM	JSON File	167 KB

4. Edit the value of the variables

- Token:

1. Go to **Settings-> Consumer Applications**.
2. Create application configuration.
3. Select **External App**.
4. Make sure **Payment** (read-write) is set for the accessible scopes
5. Reference to the [How to set up an external app to import collection](#) section of this [wiki](#) for the token generation.

- RootUrl example: <https://gatewaystage-approuter-caas2-sap-stage.cfapps.us10.hana.ondemand.com> (The target tenant where you created the merchant account.)
  - Note: when copying the URL, remember to delete the "/" in the end.
- Account group ID
- Account ID

The screenshot shows the SAP Upscale Commerce settings page for a Klarna Checkout application. The browser address bar displays the URL: `approuter-caas2-sap-stage.cfapps.us10.hana.ondemand.com/settings/payment/account/51200/64400/general`. Two red boxes with arrows highlight the numbers in the URL: `51200` is labeled "51200 is the account group ID" and `64400` is labeled "64400 is the account ID".

The page content includes a sidebar with navigation links: General configuration, Merchant ID, Variables (optional), Settlement method, Authorization, Front-end component configura..., Authorization reversal, Request, Settlement, Request, Refund, Request, Re-authorization, Request, and Notification.

The main content area shows the 'General configuration' section for the 'Merchant ID'. It contains a text input field with the value 'd4d4d4d' and a 'Save' button. A note states: "The Merchant ID is a unique account reference assigned to you by your Payment Gateway."

Below the Merchant ID section is the 'Variables -Optional' section, which includes a table for key-value pairs:

Key	Value	Hide value
Key	Value	<input type="checkbox"/>

A note explains: "Use variables to store values that are repeated throughout your mappings. Examples are user, account IDs or passwords. When you change the variable value here, it will be reflected everywhere you referenced it. For variables of a sensitive nature such as passwords or secret keys, you can flag them as" (partially obscured).

- (Notification Basic Auth)Adyen Hosted Field\_username, (Notification Basic Auth)Adyen Hosted Field\_password (See the screenshot below.)
- (Notification HMAC)Adyen Hosted Field, the one you have noted down. It cannot be copied from Adyen once generated, you have to note it down right after the generation. (See the screenshot below from Adyen.)

## Configure webhook settings for SAPCOM\_STAGE\_GATEWAY

Standard Notification

Transport

URL	<input type="text" value="https://gatewaystage-approuter-caas2-sap-1"/>
SSL Version	<input type="text" value="TLSv1.2"/>
Accept expired <i>i</i>	<input type="checkbox"/>
Accept self-signed <i>i</i>	<input type="checkbox"/>
Accept untrusted Root Certificates <i>i</i>	<input type="checkbox"/>
Active	<input checked="" type="checkbox"/>
Service Version	<input type="text" value="1"/>
Method	<input type="text" value="JSON"/>
Populate SOAP Action header	<input type="checkbox"/> (Some SOAP servers, notably .NET require a non-blank SOAP Action header)

Notifications will be sent to this URL (if set to Active). When we send a SOAP message, [this WSDL](#) specification is used.

Authentication

User Name	<input type="text" value="upscale"/>
Password	<input type="password" value="*****"/>

Additional Settings

Select all

Add Acquirer Result	<input type="checkbox"/>
Add Capture Reference To Dispute Notification	<input type="checkbox"/>
Add Payment Account Reference	<input type="checkbox"/>
Add Raw Acquirer Result	<input type="checkbox"/>
HMAC Key (HEX Encoded)	<input type="button" value="Generate new HMAC key"/> <input type="button" value="Use HMAC key of another account"/>

Already configured (KCV: 258C08) ✓

- (Webservice User)Adyen Hosted Field

## Edit Web Service User

User Account Details

User Name

ws@Company.SAPAccount

Note

Short description of the Web Service user

Active

☒

Authentication

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

API Key

API Key

.....m843g

Generate New API Key

To authenticate from a client application

Client-Side Encryption

Client Encryption

Public Key

10009CB9EC1D32849F68F721E7D380A388D42EB

Hosted Client-Side Encryption

Library Version

Use v0\_1\_18

(changes will be applied after you click save)

Library location

https://test.adyen.com/hsplbase/ja/80155867303

Library token

(aka "PublicKeyToken")

8015586730382342

Origin key

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

https://www.test-merchant.com

Generate Origin Key

- clientKey

adyen  
TEST

Transactions Performance Risk Point of sale Finance **Account**

## Edit Web Service User

User Account Details

User Name

ws@Company.SAPAccount

Note

Short description of the Web Service user

Active

☒

Authentication

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

API Key

API Key

.....m843g

Generate New API Key

To authenticate from a client application

Client Key

Client Key

test\_TMSJNBKWKJUFJYRBAH4FFQSOXONUSH

Generate New Client Key

Basic Auth

Password

.....

Retype Password

.....

Generate Password

Generate POS Password

Last Password Change

2019-06-20 04:58:18 CEST

Client Certificate

(DN)

.....

Client-Side Encryption

Client Encryption

Public Key

10009CB9EC1D32849F68F721E7D380A388D42EB

Hosted Client-Side Encryption

Library Version

Use v0\_1\_18

(changes will be applied after you click save)

Library location

https://test.adyen.com/hsplbase/ja/80155867303

The V0\_1\_X CSE library is available, running library version 0\_1\_18.

Library token

(aka "PublicKeyToken")

8015586730382342

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

Demo Server

Checkout Demo Server

Checkout Demo Ser

01013F8667E5C069328441CFA2483835419A4E79450655940E74F487

ver API Key (x-demo

11BF5596860496641F44231E1443910403AD6CFE2B5A27D756FFEB00

-server-api-key)

878039F3879C305340730C150568009EE47C0CB65588C4822406007

Allowed origins

.....

- capturePattern: The capture pattern for the upscale payment account. Select one of the following, Adyen supports partial capture.
  - PARTIAL\_CAPTURE
  - CAPTURE\_PER\_SHIPMENT
  - AUTO\_CAPTURE

- `authorizationTimeoutDays`: The authorization timeout days for the upscale payment account.

5. Save and run the Postman collection.

## 7 Additional Notes

If you delete the merchant account, the linked APM is also deleted.