

# Integrating PayPal PLUS

A Quick Integration Guide for PayPal PLUS

01.	Int	roduction	4
01	.1.	Change History	4
02.	Usi	ng the PayPal API	5
02	.1.	Architecture	5
02	.2.	PayPal Sandbox	5
02	.3.	API Endpoints	5
02	.4.	Creating client_ID and secret	6
02	.5.	Authentication & Headers	7
03.	Ch	eckout Experience	7
04.	Pay	yments	8
04	.1.	Create a payment	8
04	.2.	Update a payment resource (Patch payment) - Optional	9
04	.3.	Look up a payment resource – Optional	9
04	.4.	Execute an approved PayPal payment	10
05.	Re	funds	11
05	.1.	Look up a sale	11
05	.2.	Refund a sale	11
06.	Pay	ment Notifications	11
07.	Sw	itching from Sandbox to Live environment	12
08.	Int	egrating PayPal PLUS	13
08	.1.	Integrating the payment wall:	16
08	.2.	pppluslibrary	17
08	.3.	API	17
08	.4.	Configuration object	17
08	.5.	Integrating the external "continue button"	23
08	.6.	Update (Patch) payment	24
08	.7.	Redirect to authorize payment	26
08	.8.	Look Up Payment	27
08	.9.	Update (Patch) payment	27
08	.10.	Execute Payment	28
09.	Int	egrating manual Bank Transfer (mEFT)	28
10.	Ad	ditional Steps to Integrate Pay upon Invoice	29
10	.1.	Before you start:	29
10	.2.	Enabling Pay upon Invoice in Sandbox	29
10	.3.	Step 1: Retrieving Payment Instructions:	29

10.4.	Presentation on the Success Page	31
10.5.	Step 2: Managing invoice transactions	31
11. Int	egration using requires	33
12. Pa	yPal PLUS Walk Through	35
12.1.	Checkout with ELV	35
12.2.	Checkout with Credit Card	37
12.3.	Checkout with Pay upon Invoice	38
13. Ap	pendix	40
13.1.	Technical Documentation	40
13.2.	API Documentation	40
13.3.	Reporting	40

# 01. Introduction

PayPal PLUS is a solution where PayPal offers PayPal, Credit Card, Direct Debit (ELV) and pay upon invoice as individual payment options on the payment selection page. The available payment methods are provided in a PayPal hosted iframe.

Based on the payment method selected by the buyer, he will at a later stage (on redirect to PayPal / in context checkout) be presented with either the PayPal Login page or an input mask for bank / credit card details or a pay upon invoice details page.

The redirect can be initiated from within the iframe or at any later stage during checkout. The final payment execution happens on the merchant side.

#### Please note:

PayPal PLUS requires a vetting process. To apply for PayPal PLUS go to this link:

www.paypal.de/paypal-plus

PayPal PLUS requires a fully verified PayPal merchant account

Pay upon invoice may not be available for all merchants.

PayPal PLUS is by default enabled for all German <u>Sandbox</u> accounts.

## 01.1. Change History

This version replaces all previous PayPal PLUS integration guides (Vers. 1.x) rendering them obsolete!

Date	Version	Author	Description
10/12/2015	2	Kristian Büsch	Initial draft based on October
			2015 integration standards
10/30/2015	2.1	Kristian Büsch	Added Customization of the
			payment selection page PSP
			Invoice legal note
01/14/2016	2.2	Kristian Büsch	Loading Indicator, requireJS

# 02. Using the PayPal API

# 02.1. Architecture

PayPal PLUS utilizes PayPal's RESTful API. https://developer.paypal.com/webapps/developer/docs/api/

# 02.2. PayPal Sandbox

The PayPal test environment "Sandbox" is a mirror of the PayPal live system. Any part of the PayPal integration can be tested in this environment without "real" funds being moved.

PayPal recommends using the Sandbox for integration and switching to the live system once the integration has been finished. Therefore you can create preconfigured buyer and seller account within the developer platform of PayPal at

https://developer.paypal.com/docs/classic/lifecycle/sb\_create-accounts/

# 02.3. API Endpoints

The PayPal REST APIs are supported in the Sandbox environment for testing purposes. Use your Test credentials to generate an access token for making calls with the Sandbox endpoints. When you're set to go live, get your credentials for the Live environment and generate a new access token that you can use with the Live endpoints.

The following URIs form the base for the endpoints in the supported environments:

- Sandbox, base URI: https://api.sandbox.paypal.com
- Live, base URI : https://api.paypal.com

# 02.4. Creating client\_ID and secret

PayPal automatically provides Sandbox OAuth keys (a client\_id and secret) for each application you create. You can then go to "Manage your applications" for details on creating and managing your PayPal applications. When selecting the facilitator please make sure to pick a DE account.

App Name	
My New PLUS App	
Sandbox developer account	
test@paypal-plus.de (DE)	
As a reminder, all apps created under your acc By clicking the button below, you agree to Pay	ount should be related to your business and the type of business it conducts. Pal Developer Agreement <sup>□</sup> .

Create App

If you create Sandbox Test accounts prior to creating the APP they will be listed in the dropdown menu there

Direct Link: https://developer.paypal.com/webapps/developer/applications/myapps

To create a new PayPal app log in to the Developer portal with your PayPal account and navigate to the My REST apps page. Click Create App to begin the application-creation process.

Direct link: https://developer.paypal.com/webapps/developer/applications/createapp

# 02.5. Authentication & Headers

With each API call a request headers needs to be set including an OAuth 2.0 access token. An access token can be requested by using the OAuth 2.0 client\_credentials token grant type with your clientId:secret as your Basic Auth credentials.

Access tokens should not be created on a transactional basis. When an access token is generated PayPal returns the lifespan as "expires\_in": 32187 in seconds. There is no refresh token so the remaining time should be tracked and/or a new access token generated once PayPal returns error response 401 unauthorized when a token is expired.

For more information, see Make your first call. You can use your Sandbox access token to try any of the code in this reference.

# **03. Checkout Experience**

Endpoint POST /v1/payment-experience/webprofiles

The Checkout experience allows a merchant to create a profile where default parameters can be set and it allows designing the overall experience for a consumer during checkout.

These global parameters are to be set <u>only once</u> and the referenced in create payment via the <u>experience\_profile\_id</u> that was returned upon submitting a successful request. Localized or sub shops should be referenced with individual profiles.

By default address override is set when a shipping address is submitted and disabled when no address submitted in the createPayment request. If you do not pass the shipping address in the createPayment but in the update (PATCH) payment you have to specify address\_override in the experience profile.

Experience profiles <u>must not</u> be generated with each transaction. They should be set once and then referenced.

#### **Recommended parameters:**

<ul> <li>brand_name =&gt; My Shop N</li> </ul>	√ame
--	------

- logo\_image => https://www.myshop.de/logo.gif
- locale\_code => DE
- allow\_note => false
- no\_shipping => 0
- address\_override => 1

Please note: Please do not specify a dedicated landing\_page\_type for PayPal PLUS!



# 04. Payments

#### URI: https://api.paypal.com/v1/payments/payment

PayPal provides various payment related operations using the /payment resource and related sub-resources. Use payment for direct credit card payments and PayPal account payments. You can also use sub-resources to get payment related details.

## 04.1. Create a payment

Endpoint POST /v1/payments/payment

Depending on the payment\_method and the funding\_instrument, you can use a number of payment resources. For PayPal PLUS the only valid payment resource is PayPal account payments.

In the response PayPal returns a payment object along with the state of the payment and sale. The response includes a payment ID that uniquely identifies the transaction. Also included is an approval\_url that is required to render the PayPal PLUS payment wall. Since Create Payment is call prior to the actual payment selection you may want to exclude user specific data. The payment resource can be updated with this data at a later stage.

#### **Recommended parameters:**

- For PayPal PLUS line items <u>must be</u> submitted
- Shipping / billing address as a best practice <u>should not be</u> submitted here but later by using PATCH Payment

#### Please note:

#### Including / excluding VAT

To avoid rounding errors we recommend not submitting tax amounts on line item basis. Calculated tax amounts for the entire shopping basket may be submitted in the amount objects. In this case the item amounts will be treated as amounts excluding tax. In a B2C scenario, where taxes are included, no taxes should be submitted to PayPal.

#### Developer documentation

# 04.2. Update a payment resource (Patch payment) - Optional

Endpoint PATCH /v1/payments/payment/<Payment-Id>

Use this call to partially update the Payment resource for the given identifier. Only the transaction amount object, invoice\_number, billing and shipping address can be updated.

#### Please note:

- Lines items cannot be update at any stage.
- Billing address can only be added/updated prior to the PayPal hosted pages.
- Shipping costs, discounts and other fees can be updated as part of the amount object

Please note: Only add and replace are valid operations. All other operations will fail.

**Please note:** Patch can only be utilized prior to Execute Payment. Once Execute Payment has been successfully completed, PATCH will no longer work.

#### **Recommended parameters:**

- Amount (/transactions/0/amount) including all sub parameters including subtotal. Please note: The <u>entire</u> amount object is replaced when updated
- Invoice / Order number (/transactions/0/invoice\_number). Must be unique
- Shipping Address (/transactions/0/item\_list/shipping\_address)
- Billing Address (/potential\_payer\_info/billing\_address) **Only prior to PayPal hosted pages!** (PayPal hosted pages are all pages the consumer is redirected to from the shop pages. They are hosted on paypal.com and include the PayPal login page, credit card and direct debit details pages and / or invoice details)

Developer documentation

#### 04.3. Look up a payment resource – Optional

Endpoint GET /v1/payments/payment/{paymentId}

Use this call to get details about payments that have not completed, such as payments that are created and approved, or if a payment has failed.

Developer documentation

# 04.4. Execute an approved PayPal payment

Endpoint POST /v1/payments/payment/{paymentId}/execute

Use this call to execute (complete) a PayPal payment that has been approved by the payer. Execute should <u>only submit the Payer ID</u>. All transaction related updates (shipping address, charges that are part of the amount object, invoice\_number should be updated by using PATCH payment.

**Important:** This call only works after a buyer has approved the payment using the provided PayPal approval URL.

Developer documentation



# 05. Refunds

Before initiating a refund it is recommended getting the details about completed payments (sale transaction) created by a payment request or to refund a direct sale transaction, PayPal provides the /sale resource and related sub-resources. You can find the sale transactions in the payment resource within related\_resources.

URI https://api.paypal.com/v1/payments/sale

## 05.1. Look up a sale

Endpoint GET /v1/payments/sale/{transactionId}

Use this call to get details about a sale transaction. Note: This call returns only the sales that were created via the REST API.

Developer documentation

## 05.2. Refund a sale

Endpoint POST /v1/payments/sale/{id}/refund

Use this call to refund a completed payment. Provide the sale\_id in the URI and an empty JSON payload for a full refund. For partial refunds, you can include an amount.

Developer documentation

# **06. Payment Notifications**

Instant Payment Notification is no longer supported in PayPal REST Payment. Existing integrations with IPN will continue to work but the listener script can no longer be referenced in the API calls. Notifications are sent only to the notifyURL set in the merchant account (https://www.paypal.com/de/cgi-bin/webscr?cmd=\_profile-ipn-notify).

Payment notifications are managed via webhooks.

Please note: Webhooks require https!

PayPal PLUS

Developer documentation

# 07. Switching from Sandbox to Live environment

When testing is complete and you are ready for switch to live there are three touch points.

- 1. Change the API endpoint from https://api.sandbox.paypal.com to https://api.paypal.com
- 2. Change the Environment in the configuration element of the PLUS library by commenting out "mode": "sandbox", or replace sandbox with live.
- 3. Update the Sandbox REST credentials (Client / secret) with the live credentials from your REST APP. You can either generate a new REST APP or simply switch to Live within the credentials view of your APP.

My New Demo Ap	Sandbox Live	
App display name: My New	Demo App 🥒	
LIVE API CREDENTIALS		
PayPal account:	myliveaccount@domain.com	
Live endpoint:	api.paypal.com	
Credential Pairs		
Client ID:		
myliveclientID		
Secret:		
inyiiveaediet		

4. Make sure your live account is enabled for PayPal PLUS.

# **08. Integrating PayPal PLUS**

With PayPal PLUS your payment selection page is replaced by the PayPal hosted payment wall. Up to 5 non PayPal payment methods can be hosted within this payment wall.

#### Without PayPal PLUS:

Zal	hlungsart		
0	PayPal		
0	Vorauskasse		
٢	Nachnahme (7,50 €) Nachnahmegebühr		

#### With PayPal PLUS:

PayPal	Ihr erstes Mal PayPal? Jetzt einfach kostenloses Konto während der Zahlung eröffnen und von <u>Käuferschutz</u> profitieren.	$\checkmark$
Lastschrift		
Kreditkarte		
Vorauskasse		
Nachnahme		

PayPal PLUS requires a PayPal Integration based on PayPal's REST payment API.

Prior to rendering the payment wall a payment resource must be created. The corresponding API call is "create payment". When creating the payment resource amount, currency and items details must be submitted.

Depending on the individual checkout configuration the create payment call may also contain the buyer billing/shipping address but we recommend updating the payment resource after the user selected the payment method. (Patch Payment)



In the next step the actual PayPal payment wall is rendered. Each instance is rendered on demand. Unique identifier is the approvalurL as returned in the Create payment call. Depending on the configuration of this payment wall different scenarios may occur.

As default a payment button will be displayed within the payment wall and displayed when a user selects a payment method. It is also possible to use an existing button outside of the payment wall. To implement this use case, please refer to the chapter:

Integrating the external "continue button"

When a user is clicking the "checkout now" a "DoCheckout" function is invoked and the user is redirected to a PayPal hosted pages. Based on the selected method PayPal will direct the user to either the PayPal login - , credit card - or bank details page. All fields where information previously submitted will appear prepopulated.

It is possible to implement an extended flow where the "DoCheckout function" is executed on a subsequent page. For details on how to integrate please refer to the chapter:

Integrating the external "continue button"

When hosting 3<sup>rd</sup> party methods in the paymentwall the "DoCheckout function" will redirect the user to the redirectURL as defined in the config element of the payment wall.

Once the user completed the required steps he will be redirect to the returnURL. From there the transaction should be handled like any standard PayPal transaction.

#### Please note:

PayPal PLUS only supports transaction type "Sale" (instant settlement).



**PayPal PLUS Flow** 

PayPal PLUS

# **08.1.** Integrating the payment wall:

The payment wall is the actual payment selection frame. It is rendered on demand and based on the approvalURL as received in the related\_resources object of the *Create Payment* response.

Depending on the Billing address country a buyer will see all available funding sources for his country of origin.

#### 1) Include JS library:

```
<script src="https://www.paypalobjects.com/webstatic/ppplus/ppplus.min.js"
type="text/javascript"></script>
```

#### 2) Define a placeholder DIV:

```
<div id="ppplus"> </div>
```

#### 3) Render Payment wall:

```
<script type="application/javascript">
    var ppp = PAYPAL.apps.PPP({
        "approvalUrl": "'.$approval_url.'",
        "placeholder": "ppplus",
        "mode": "sandbox",
        "country": "DE"
    });
</script>
```

4) (Optional) Configure the "Continue Button" (see Integrating the external "continue button).

# 08.2. pppluslibrary

Provides a JavaScript library for including the PayPal PLUS Payment Selection Page (PSP) in a merchants website. When loaded, the library will attach itself as an object to PAYPAL.apps as PAYPAL.apps.PPP. The PPP object defines the following API:

#### 08.3. API

var ppp = PAYPAL.apps.PPP(config)

Creates an instance of the PSP. It requires as only parameter a configuration object (described below). It returns the instance object.

ppp.doContinue()

This function should be invoked by the outside continue button when it is being clicked. PAYPAL.apps.PPP.doCheckout()

This function should be invoked by the elsewhere continue button or when the checkout event is handled by the library.

## 08.4. Configuration object

The configuration object takes the following parameters:

#### **Required parameters**

```
approvalUrl : string
```

(required) The approvalUrl that is returned by the `create payment` call.

placeholder : string

*(required)* The id of a DOM object where the PSP will be mounted in the page. The PSP will adapt the width of that object.

country : ISO 3166-1 alpha-2, (e.g. FR, GB, DE, default US)

Country in which the PayPal PLUS service will be deployed.

**Please note:** The country code must be taken from the billing address a buyer entered during checkout.



#### **Optional parameters**

mode : "live" or "sandbox" (defaults to "live")

Depending on the mode, the library will load the PSP from different locations. live will load it from paypal.com whereas sandbox will load it from sandbox.paypal.com. The library will also emit warning to the console if the mode is sandbox (in live mode it will do so only for required parameters).

buttonLocation : "inside" or "outside" (defaults to "inside")

Determines the location of the Continue button. Don't forget to set the *onContinue* parameter.

preselection : "none", "paypal", "Vorkasse" synonyms (defaults to "paypal")

- Determines if one of the following should be preselected:
  - ✓ nothing (="none"),
  - ✓ PayPal Wallet (="paypal") or
  - ✓ thirdparty method with methodName "Vorkasse" (or one of its synonyms).
- "Vorkasse" synonyms: "Vorkasse", "Überweisung", "Vorauszahlung", "Vorausbezahlung", "Vorauskasse", "Vorabzahlung", "prepayment", "advance payment", "payment in advance" and "pay in advance"

```
language : Lanuage: [ll]_[CC], e.g "en_US", "de_DE" (defaults to "en_US")
```

[II] = language (ISO\_639-1) [CC] = country (ISO\_3166-1\_alpha-2) all supported locale codes

Language in which to render PayPal PLUS PSP. This should be the language of the merchant shop to keep the content for the buyer consistent.

**Please note:** The language code should be dynamically filled according to the language displayed in the shop frontend. Currently unsupported languages will default to English but may be added at a later stage.

onContinue : callback or string

If a string is given that string will be interpreted as ID of a form in the document which will be submitted when the inside continue button is clicked. If a callback is given that callback will be invoked when the inside continue button is clicked.

onLoad : callback

A function that should be called when the iframe loaded successfully.



enableContinue : callback or string

If a string is given that string will be interpreted as ID of the outside continue button (may be any element) which will be enabled when a payment selection is made. In case of a callback that callback will be invoked then.

disableContinue : callback or string

If a string is given that string will be interpreted as ID of the outside continue button (may be any element) which will be disabled if no payment method is selected. In case of a callback that callback will be invoked then.

deselectPaymentMethod

Emitted when the action for deselecting all payment methods is being called.

useraction: "commit"

Checkout flow to be implemented by the Merchant. If not set, the default will be set to the "Continue" flow. The checkout flow selected determines whether the merchant explicitly requires that the buyer reviews and confirms the payment on a review page ("Continue" Flow) or if he/she can confirm payment on PayPal ("Commit" Flow).

surcharging: "true" (defaults to false)

If set to "true" it will activate a message that indicates that surcharges will be applied.

showLoadingIndicator: true or false (defaults to false)

If set to "true" it will show a loading spinner until the PSP is completely rendered.

showPuiOnSandbox: true or false (defaults to false)

If set to "true" PUI is shown in sandbox mode (NOTE: this parameter is ignored in production mode!)

onThirdPartyPaymentMethodSelected : callback

The callback will be invoked when a thirdPartyMethod is selected. Along with it you receive the method name.

onThirdPartyPaymentMethodDeselected : callback

The callback will be invoked when a thirdPartyMethod loses selection state through the selection of another paymentMethod

#### Example:

```
onThirdPartyPaymentMethodSelected: function (data) {
    /* for example:
    switch(data.thirdPartyPaymentMethod) {
    case x: ...
    case y: ...
    } */
    var output = "onThirdPartyPaymentMethodSelected callback, returned
data: " + JSON.stringify(data);
    console.log(output);
},
onThirdPartyPaymentMethodDeselected: function (data) {
    var output = "onThirdPartyPaymentMethodDeselected callback, returned
data: " + JSON.stringify(data);
    console.log(output);
},
```

#### Integrating third party payment methods in to the payment selection page

thirdPartyPaymentMethods : JSON Array

The user may configure up to 5 additional payment methods within the PSP. If more payment methods are defined, only the first 5 will be taken into account. If third party payment methods are specified, the user will be not be redirected to the PayPal checkout but to the given redirect URL directly (doCheckout function). The following is the structure of the JSON Object:

```
thirdPartyPaymentMethods:
[{"redirectUrl":"http://myshop.com/vorkasse.php",
"methodName": "Bank transfer",
"imageUrl": "https://myshop.com/logo.png",
"description": "my description"}]
```

The following validations will be performed on the JSON Array:

- If any of the Payment methods defined has errors, all the methods will be discarded.
- Parameters redirectURL and methodName are mandatory.
- The imageUrl must be a secure (https) URL.
- The image size must be maximum 100 x 25 px.
- methodName can contain maximum 25 Characters, additional characters will be truncated.



#### Customization

The following are the customization whitelists currently supported by the PSP:

Only whitelisted attributes and selectors may be defined. Additional attributes and selectors will be discarded. Take into account that not all attributes are available to all selectors.

URL's and URI's are not allowed.



```
#### CSS attributes
font-family (only for psp) (Default value: Arial)
Allowed values: "Arial", "Helvetica", "Times New Roman", "Times", "Courier
New", "Courier", "Sans Serif". Webfonts are currently not supported.
font-size (only for psp) Default value: 12px
Sizes should be defined in Pixels (px) and/or EMs (em) with no space
between value and unit.
range for em: 0.75 - 1.0
range for px: 12 - 16
font-style (only for psp) : Default value: "normal"
Allowed values: "normal", "italic"
color
Allowed formats: "#f0f0f0", "rgb(100,100,100)", "red"
text decoration (only for link, visited, hover and active)
Allowed values: "none", "underline"
#### CSS selectors
Psp
link (a)
visited (a:visited)
hover (a:hover)
active (a:active)
#### styles object example
{
    "psp": {
        "font-family": "Times New Roman",
        "color": "green",
        "font-size": "14px",
        "font-style": "italic"
    },
    "link": {
        "color": "red",
        "text-decoration": "underline"
    },
    "visited": {
        "color": "green",
        "text-decoration": "underline"
    },
    "active": {
        "color": "yellow",
        "text-decoration": "underline"
    },
    "hover": {
        "color": "rgb(100,66,200)",
        "text-decoration": "underline"
    } }
```

## **08.5.** Integrating the external "continue button"

If configured in the JS library a continue button will appear next to the selected payment method. In most scenarios an external button will be used though. Please follow these simple steps to configure an external button.

In the JS library use the following setup:

```
buttonLocation: "outside",
disableContinue: "continueButton",
enableContinue: "continueButton",
```

PayPal recommends disabling the button if there is no payment method selected but it is not required. Replace "continueButton" with your button ID.

Example button:

```
<button

type="submit"

id="continueButton"

onclick="PAYPAL.apps.PPP.doCheckout();">

Checkout Now

</button>
```

In this scenario a click on the button will directly lead to the hosted PayPal pages.

If there is an additional page prior to the redirect, please add the onContinue function to the configuration object of the PayPal PLUS library.

```
onContinue: function () {
window.location = "nextpage.php";
},
```

Add this to the continue button

```
<button

type="submit"

id="continueButton"

onclick="ppp.doContinue(); return false;">

Checkout

</button>
```

On this nextpage.php the PayPal PLUS library needs to be loaded and the checkout function added to the button.

```
<button
type="button"
onclick="PAYPAL.apps.PPP.doCheckout();">
PayPal PLUS Checkout Now
</button>
```



# 08.6. Update (Patch) payment

In a best practice integration billing and shipping address are not submitted prior to the user selecting a PayPal payment method. Once the buyer indicates that he wants to use one of the payment methods provided by PayPal the payment resource should be updated with user specific data.

In addition the amount object can be updated. When replacing values within the object make sure to submit all properties you wish to keep. Patch replaces the entire object and not just the individual value.

Please note: The line items are fixed at this stage and <u>must not</u> be updated.

Method: PATCH Resource: https://api.sandbox.paypal.com/v1/payments/payment/PAY-3GA34907N1379922SKYN25II

#### Sample PATCH Request

```
[0] => Array
    (
        [op] => replace
        [path] => /transactions/0/amount
        [value] => Array
            (
                [total] => 0.01
                [currency] => EUR
                [details] => Array
                    (
                        [subtotal] => 4.99
                        [shipping] => 1.00
                        [shipping_discount] => -5.98
                    )
[1] => Array
    (
        [op] => add
        [path] => /potential payer info/billing address
        [value] => Array
            (
                [line1] => Rechnungs Str. 41
                [city] => Berlin
                [country_code] => DE
                [postal code] => 12345
            )
[2] => Array
    (
        [op] => add
        [path] => /transactions/0/item list/shipping address
        [value] => Array
```

```
(
    [recipient_name] => Max Mustermann
    [line1] => Lieferstr. 1
    [city] => Berlin
    [country_code] => DE
    [postal_code] => 12345
)
```

In the response the updated Resource is returned.

# **08.7.** Redirect to authorize payment

Depending on the selected payment method the user will be directed to the correct landing page. (Either PayPal Login, Credit Card Credentials, ELV details or invoice). This redirect is initiated by either the inside button or – if you integrated the "continue button" – by the PAYPAL.apps.PPP.doCheckout function.

Wir geben Ihre weiter	Zahlungsdate	<b>len</b> In nicht an den Händler	
Deutschland		3	Wichtig
VISA 🧱 💌	-		Ihre Zahlungsdaten werden verschlüsselt, um sie vor Missbrauch zu schützen, sodass Sie unbesomt einkaufen können
Kreditiartem	tummer		
Gültig bis		Prüfnr.	
MM ~	n ~	3-stellig	
Мах		Mustermann	
E-Mail			D
Handy N	<ul> <li>Telefor</li> </ul>	nummer	
Rechnungsad	resse		
Lieferstr. 1			
Carpelores (1894)			
Adressusatz			
14532	ĸ	leinmachnow	
Adresszuszt 14532 PayPal-Ki Sie können au Sie jedoch ein Problemen au Sie können in Passwort zahle	K Onto eröff ch ohne PayP Konto eröffne I den PayPal-J Zukunft beque n.	leinmachnow <b>NEN (Optional)</b> al-Konto fortfahren, Wer m, können Sie bei (äuferschutz zählen, Un m mit E-Mail-Adresse un	in 1 Id
Adrescould 14532 PayPal-Ku Sie können au Sie jedoch ein Problemen aut Sie können in Passwort zahle PayPal-Konto	K Onto eröff ch ohne PayP Konto eröffne f den PayPal-J Zukunft beque n. eröffnen? (Es	leinmachnow <b>NCN (Optional)</b> al-Konto fortfahren. Wer n, können Sie bei (äuferschutz zählen. Un m mit E-Mail-Adresse un dauert nur einen Momen	in d rd
14532 PayPal-Ku Sie können au Sie jedoch ein Problemen au Sie können in Passwort zahle PayPal-Konto Ja, kosten	Konto eröff ch ohne PayP Konto eröffne f den PayPal-I Zukunft beque n. eröffnen? (Es loses PayPal-I	leinmachnow <b>NEN (Optional)</b> al-Konto fortfahren. Wer In, können Sie bei Gäuferschutz zählen. Un m mit E-Mail-Adresse un dauert nur einen Momen Conto eröffnen.	in 5 td it.)
14532 PayPal-Ku Sie können au Sie jedoch ein Problemen au Sie können in Passwort zahle PayPal-Konto Ja, kosten Nein dani	Konto eröff ch ohne PayP Konto eröffne f den PayPal-J Zukunft beque in. eröffnen? (Es o loses PayPal-J ie	leinmachnow <b>NEN (Optional)</b> al-Konto fortfahren. Wer In, können Sie bei Käuferschutz zählen. Un m mit E-Mail-Adresse un dauert nur einen Momen Konto eröffnen.	in 5 nd nt.)
14532 14532 PayPal-Ki Sie können au Sie jedoch ein Problemen aut Sie können in Passwort zahle PayPal-Konto Ja, kosten Nein danl In Daten utter	K onto eröff ch ohne PayP Konto eröffne f den PayPal-I Zukunft beque in. eröffnen? (Es i loses PayPal-I ve volljänig, nabe die sonutzgrundsätze für we Datenerarjundsätze für We Datenerarjundsätze für We Datenerarjundsätze für Vesentliche Hinwelt	leinmachnow <b>Nen (Optional)</b> al-Konto fortfahren, Wer n, können Sie bei (äuferschutz zählen. Un m mit E-Mail-Adresse un m mit E-Mail-Adresse un dauert nur einen Momen (sonto eröffnen. Bedingungen und r Zahlungen ome PayPai-Konto ig und -weitergabe) gelseen und informationen über PayPai-Konto ig und weitergabe) gelseen und informationen über PayPai-Konto ig und weitergabe) gelseen und informationen über PayPai-Konto	in 5 1d 11.)

After completion the user is returned to the returnURL as defined in Create Payment.



# 08.8. Look Up Payment

Please use the GET URL as returned in the Create Payment

Method: GET Resource: https://api.sandbox.paypal.com/v1/payments/payment/PAY-3GA34907N1379922SKYN25II

Look up payment is by definition optional but we recommend using it on return to the final review page. The data returned should be used to populate the shipping address. The user must not be allowed to change order details but can edit the shipping address, as long as the latter is submitted in a subsequent PATCH Payment call. An invoice number, shipping and handling charges as part of the amount object can be added as well.

The payment method should be referenced as "processed by PayPal".

## 08.9. Update (Patch) payment

After a buyer has approved a transaction on the PayPal hosted pages the *billing address* may no longer be updated.

A typical use case would be adding the shipping address and an invoice number

```
[0] => Array
    (
       [op] => add
        [path] => /transactions/0/invoice_number
        [value] => My unique Invoice ID 12345678ABCD
    )
[1] => Array
    (
        [op] => add
        [path] => /transactions/0/item list/shipping address
        [value] => Array
            (
                [recipient_name] => Erika Mustermann
                [line1] => Neue Lieferstr. 7
                [city] => Berlin
                [country_code] => DE
                [postal code] => 12345
            )
```

## **08.10. Execute Payment**

Execute payment completes the transaction. It can either be initiated from the final review page or in the background upon return from the hosted pages when there is no final review page (commit flow). Any updates and changes to shipping address, shipping and handling charges must prior be submitted to PayPal via PATCH.

**Please note:** The actual PayPal transaction ID and the status of the PayPal transaction are returned in the related\_resources array as:

```
[id] => 0XK08547HM111121A
[state] => completed
```

#### Sample Request:

Method: POST Resource: https://api.sandbox.paypal.com/v1/payments/payment/PAY-3GA34907N1379922SKYN25II/execute

```
Data: {
    "payer_id": "HE4WLMC3N3AWN"
    }
```

# 09. Integrating manual Bank Transfer (mEFT)

As part of PayPal's funding mix a buyer may select manual bank transfer as funding instrument for a PayPal payment. In this case the transaction will be non-instant and the payment status returned "pending" until the buyer settles the amount with PayPal.

In this scenario PayPal will return the following in the execute payment response:

```
"reason_code": "ECHECK",
"state": "pending",
"payment_instruction": {
    "reference_number": "C12W2P058PNFV5V",
    "recipient_banking_instruction": {
    "routing_number": "501 108 00",
    "bank_name": "J.P. Morgan AG, Frankfurt",
    "bank_identifier_code": "CHASDEFX",
    "account_holder_name": "PayPal Pte. Ltd",
    "account_number": "6161604670",
    "international_bank_account_number": "DE86 5011 0800 6161 6046 70"}
```



To accommodate this scenario, at least two steps are required:

- define a bankpending\_url in the experience profile and / or
- capture the reason code "echeck" and when returned display the bank details on the success page with instruction to wire the due amount to bank account shown.
- In order to receive the status updates for this pending transaction, webhooks should be integrated. The transaction will also appear in the settlement files once it is completed and can be queried via look up.

# 10. Additional Steps to Integrate Pay upon Invoice

# **10.1. Before you start:**

Invoice requires a valid billing address. For the best user experience both – billing and shipping address – should be submitted to PayPal prior to redirecting the user to the PayPal hosted pages.

Pay upon Invoice is enabled on account level. There are no additional steps required to trigger invoice in the PayPal PLUS payment selection page. Invoice transactions will be marked as such and they return a payment instructions object in the execute payment response. Other than this they are treated like any other PayPal transaction. As per default Pay upon Invoice is offered for total amounts between 1,50 and 1470 EUR.

# 10.2. Enabling Pay upon Invoice in Sandbox

To test pay upon invoice in Sandbox you can enable the payment method in PLUS by adding the following parameter to the configuration object:

```
showPuiOnSandbox: "true",
```

# **10.3.** Step 1: Retrieving Payment Instructions:

When a user selects Pay upon Invoice (PuI) the following parameters are returned in a Payment Instruction Object as part of the response to a successful Execute Payment Request.



reference_number	string ID of payment instruction
instruction_type	string Type of payment instruction
recipient_banking_instruction	object Recipient bank Details.
amount	object Base object for all financial value related fields
	(balance, payment due, etc.)
payment_due_date	string Date by which payment should be received

An addition a HATEAOS link to retrieve payment instructions is returned.

Payment instructions and HATEAOS link to retrieve payment instructions must be stored in a database table where it can later be retrieved for the invoice print.

#### Sample response Execute Payment Response:

```
[payment_instruction] => Array
    (
        [reference_number] => 7FC35911MD7697828
        [instruction_type] => PAY_UPON_INVOICE
        [recipient_banking_instruction] => Array
            (
             [bank_name] => Deutsche Bank
             [account_holder_name] => PayPal Europe
             [international bank account number] => DE07120700888000XXXXXX
             [bank identifier code] => DEUTDEDBPAL
            )
        [amount] => Array
            (
                [value] => 4.99
               [currency] => EUR
            )
        [payment_due_date] => 2015-09-24
      [links] => Array
            (
                [0] => Array
                 (
                       [href] =>
https://api.paypal.com/v1/payments/payment/PAY-
1VG08356YH269600PKXOBRAY/payment-instruction
                        [rel] => self
                        [method] => GET
```

Payment instructions may also be retrieved at any later stage by calling the Lookup Payment Instructions for a payment resource.



#### Sample response GET Payment Instructions:

```
lookup payment instructions] => Array
  (
      [reference number] => 7FC35911MD7697828
      [instruction_type] => PAY_UPON_INVOICE
      [recipient_banking_instruction] => Array
          (
            [bank name] => Deutsche Bank
            [account holder name] => PayPal Europe
            [international bank account number] => DE07120700888000XXXXXX
           [bank identifier code] => DEUTDEDBPAL
          )
      [amount] => Array
          (
                 [value] => 4.99
                  [currency] => EUR
          )
      [payment due date] => 2015-09-24
      [links] => Array
          (
[0] => Array
    (
        [href] => https://api.paypal.com/v1/payments/payment/PAY-
1VG08356YH269600PKXOBRAY/payment-instruction
        [rel] => self
        [method] => GET
    )
         )
)
```

## 10.4. Presentation on the Success Page

On successful completion of a transaction the buyer is redirected to a Success Page. On this page a buyer should be advised that the amount is to be settled with PayPal and the Payment Instructions as returned by PayPal should be displayed.

### **10.5.** Step 2: Managing invoice transactions

Transactions flagged as pay upon invoice are regular PayPal transactions so they are handled in the same way as any other PLUS transaction. There is one significant difference though: The payment instruction returned by PayPal must be displayed on the printed invoice that is generated in the administration panel of the shop. This invoice should only contain the PayPal bank details as returned in the GET call. The merchant bank details must not be shown.

The invoice details must contain (taken from the example above):

Bank name:	"Deutsche Bank",
Account holder name	"PayPal Europe",
IBAN	"DE07120700888000XXXXXX",
BIC	"DEUTDEDBPAL"
Amount due / currency	"4.99 EUR"
Payment due date	"2015-09-24"
Reference	"7FC35911MD7697828"

The payment instructions must always be taken from the values as in returned in the instruction. None of the values from the payment instruction object may be hard coded including bank, recipient and IBAN. These details may be retrieved from the database table or looked up by executing another GET call for the payment resource ID in question.

A legal note must be added to the invoice:

*"[Händlername] hat die Forderung gegen Sie im Rahmen eines laufenden Factoringvertrages an die PayPal (Europe) S.àr.l. et Cie, S.C.A. abgetreten. Zahlungen mit schuldbefreiender Wirkung können nur an die PayPal (Europe) S.àr.l. et Cie, S.C.A. geleistet werden.*"

Please Note: IBAN is not a static value and must not be saved for future reference.

If prior to the invoice print a partial refund was initiated these changes must be reflected in the payment instructions.

# **11. Integration using requires**

Example for mostly integrated use case: immediate checkout with outside button

#### checkout.html (excerpt):

```
<br/><button

id="outsideButton"

type="submit"

onClick="require(['OutsideButton']); return false;">

<your button title>

</button>

...

<script src="static/require.js"></script>

...

<script src="static/require.js"></script>

...

<script type="text/javascript">

<!-- kick off PP+ -->

require(["main"], function onConfigLoaded() {

require(['CheckoutStart']);

});

</script>
```

#### main.js:

```
require.config({
paths: {
    "PPP": "https://www.paypalobjects.com/webstatic/ppplus/ppplus.min"
}
});
```

#### CheckoutStart.js:

```
define("CheckoutStart", ["PPP"], function (PPP) {
  "use strict";
  return PPP(<your-configuration-object>);
});
```

#### OutsideButton.js:

```
define("OutsideButton", ["CheckoutStart"], function (configuredPPP) {
  "use strict";
  // if onContinue callback is given this will be executed, take the user to
  another page
  // if no onContinue callback given this will execute doCheckout internally
  and
  redirect
  // the user to the selected payment method checkout page
  configuredPPP.doContinue();
  });
```



If you choose the elsewhere button experience you also need to call doCheckout():

#### elsewhere.html (excerpt):

```
<br/><button

id="elsewhereButton"

type="submit"

onClick="require(['ElsewhereButton']); return false;">

<your button title>

</button>

...

<script data-main="main" src="static/require.js"></script>

...

<script type="text/javascript">

<!-- NO kick off needed here for PP+ since the payment selection page was

rendered

in checkout.html -->

</script>
```

#### ElsewhereButton.js:

```
define("ElsewhereButton", ["PPP"], function (PPP) {
  "use strict";
  PPP.doCheckout();
  });
```

# 12. PayPal PLUS Walk Through

# 12.1. Checkout with ELV

#### PayPal Plus Sample Shop

#### Sample Shop Home / goshopping / showcart / checkout How do you want to pay? **Shipping Details** Choose your favorite way to spend some money: Shopping Cart Item Quantity Price Subtotal € 25.00 Rugby Ball, Size 5 1 € 25.00 PayPal Total: €25.00 Lastschrift Shipping Address: Max Mustermann recipient name: Kreditkarte street: Mehringdamm 82 10965 postal code: Berlin city: country code: DE Shipping Options: express shipping: on The outside continue button:

### PayPal Plus Sample Shop

Sample Shop Home / goshopping / showcart / checkout

# How do you want to pay? Choose your favorite way to spend some money: PayPal Lastschrift /// In unserem Auftrag sicher von PayPal durchgeführt. Kreditkarte

hopping cart			
Item	Quantity	Price	Subtotal
Rugby Ball, Size 5	1	€ 25.00	€25.00
fotal: €25.00			
Shipping Address:			
recipient name:	Max M	lustermann	
street:	Mehrin	igdamm 82	
postal code:	10965		
city:	Berlin		
country code:	DE		
Shipping Options:			
express shipping:			on

PayPal PLUS

## Evans Unlimited

Per Lastsch	hrift be:	zahle	en		
Vir geben Ihre Zal	hlungsdater	n nicht	an den Händler w	citer	
Deutschland				~	Datenschutz ist uns
Мах		М	ustermann		wichtig
lankverbindung			IBAN eng	eben?	um sie vor Misabrauch zu schützen, andas Sie unbescirt einkaufen können.
1- bis 10-stolig					
8-stellig					
Seburtsdatum					
π	MM	×	1111	×	
E-Mail-Advesse				0	
Handy ~	Telefo	couror	aer .		
lechnungsadres	ise				
Mehringdamm	82				
10965					
		Berlin			
An meine Re PayPal-Koi Sie können auch o doch ein Konto en ien PayPal-Kaufe Ukunft bequem n 'ayPal-Konto en ja, kostenlos Ja, kostenlos Nein danke Kin ten ver Hoghauk	echnungsad nto erö sine PayPe eröffner, kö eröffner, kö mit E-Mali A then? (Es i ses PayPal datung nole die betrag an tear betrag mit den betrag an tear paybel mit an S attalager von erspetete	Berlin Inesse I fffner al-Konto Jackonto Sauert n -Konto is Berlin is Berlin	lefern 1 (optional) 5 fortlabren, Vienn is bei Problemen- nd Sie können in und Passwort za nar einen Moment eröffnen, sonon für Schlangen of ragioner specifike sprödig zi, Webwe ch unter Vienendicht in beiterhnander und eine fortung zi, Webwe ch unter Vienendicht in sono vietermitett and einer Vienendicht and einer Vienendich	n See auf Iblen. .) .) 	

## PayPal Plus Sample Shop





# 12.2. Checkout with Credit Card

# PayPal Plus Sample Shop (debug UI, config, clear)

Sample Shop Home / goshopping / showcart / checkout

#### How do you want to pay?

Choose your favorite way to spend some money:

	Item	Quantity	Price	Subtotal
1. A. 1431	Rugby Ball, Size 5	1	€ 25.00	€ 25.00
P PayPal	Total: €25.00			
Lastschrift	Shipping Address:			
	recipient name:	Max N	lustermann	
Kreditkarte	street:	Mehri	ngdamm 82	
in diseen Autag sole yor rayral duroigeunit.	postal code:	10965		
	city:	Berlin		
	country code:	DE		
	Shipping Options:			
	express shipping:			off

The outside continue button:

**Shipping Details** 

Shopping Cart

Checkout

## Evans Unlimited

Wir geben ihre Zahlungsdaten nicht an den Händler weiter.   Deutschland   Immediation immed	hit Kreditkarte zahl	en	
Deutschland	fir geben Ihre Zahlungsdaten n	licht an den Händler weiter.	
with with with with with with with with	Deutschland	Ŷ	Datenschutz ist uns
Kreditkartennummer     Sie unbesorgt einkaufen können.     Sie unbesorgt einkaufen können.     MM v JJ v 3-stellig     Max     Mustermann     E-Mail-Adresse     Mehringdamm 82     10965     Berlin     An meine Rechnungsadresse liefern        PayPal-Konto eröffnen (optional)   An meine Rechnungsadresse liefern PayPal-Konto eröffnen, Konnen Sie bei Problemen auf en PayPal-Konto eröffnen, PayPal-Konto eröffnen, Sie bei Problemen auf en PayPal-Konto eröffnen, Sie bei Problemen auf en PayPal-Konto eröffnen, Sie bei Problemen auf en PayPal-Konto eröffn	VISA 😂 🞫 📃		Wichtig Ihre Zahlungsdaten werden verschlüsse um sie vor Missbrauch zu schützen, soda
Sultig bis Kartenprufin:   MM JJ   Batellig     Max   Max   Mustermann     E-Mail-Adresse   Pandy   Telefonnummer     Rechnungsadresse   Mehringdamm 82   10965   Berlin      Y An meine Rechnungsadresse liefern   PayPal-Konto eröffnen (optional)    Sie können auch ohne PayPal-Konto fortfahren. Wenn Sie edoch ein Konto eröffnen (optional)    Sie können much ohne PayPal-Konto fortfahren. Wenn Sie edoch ein Konto eröffnen? (Es dauert nur einen Moment.)    Ja, kostenloses PayPal-Konto eröffnen.   Ja, kostenloses PayPal-Konto eröffnen.   PayPal-Konto eröffnen? (Es dauert nur einen Moment.)    Ja, kostenloses PayPal-Konto eröffnen.   PayPal-Konto eröffnen?   Vein danke   In thin vollfäring, habe die Bedingungen und   Despitert und stumme diesenzu. Weitere Informationen über   PayPal in thin vollfäring, habe die Bedingungen und	Kreditkartennummer		Sie unbesorgt einkaufen können.
MM       JJ       3-stellig         Max       Mustermann         E-Mail-Adresse       Image: Comparison of the state of	iultig bis	Kartenprüfnr.	
Max       Mustermann         E-Mail-Adresse       Image: Comparison of the second	mm ~ JJ ~	3-stellig	
E-Mail-Adresse  Handy  Telefonnummer  technungsadresse  Mehringdamm 82  10965 Berlin  An meine Rechnungsadresse liefem  PayPal-Konto eröffnen (optional) ke können auch ohne PayPal-Konto fortfahren. Wenn Sie ekönnen auch ohne PayPal-Konto fortfahren. Wenn Sie ekönnen auch ohne PayPal-Konto fortfahren. Wenn Sie ekönnen auch ohne PayPal-Konto fortfahren. Und Sie können in ukunft bequem mit E-Mail-Adresse und Passwort zahlen. tayPal-Konto eröffnen (Es dauert nur einen Moment.) Ja, kostenloses PayPal-Konto eröffnen. Nein danke kh tim vällipärin, habe die Bedingungen und barsenthetzungsadsze für Zahlungen ohne FayPal-Konto rimidake Datesveratheting und weitergabely gelesen, gesteleer	Max	Mustermann	
Handy       Telefonnummer         Rechnungsadresse         Mehringdamm 82         10965       Berlin         I n meine Rechnungsadresse liefern         PayPal-Konto eröffnen (optional)         sie können auch ohne PayPal-Konto fortfahren. Wenn Sie edoch ein Konto eröffnen (optional)         sie können auch ohne PayPal-Konto fortfahren. Wenn Sie edoch ein Konto eröffnen (optional)         sie können auch ohne PayPal-Konto fortfahren. Wenn Sie edoch ein Konto eröffnen Sie bei Problemen auf en PayPal-Käuferschutz zählen. Und Sie können in Ukunft bequem mit E-Mail-Adresse und Passwort zählen.         PayPal-Konto eröffnen? (Es dauert nur einen Moment.)         Ja, kostenloses PayPal-Konto eröffnen:         Nein danke       Ich hin vollijhrig, habe die Bedingungen und Debenduckzentratebing und -metergabe) geisen, gespricht und blimme diesen zu Weltere Informationen über PayPal-Konto eröffnen:         Nein danke       Ich die vollijhrig habe die Bedingungen und Debenduckzentratebing und -metergabe) geisen, gespricht und blimme diesen zu Weltere Informationen über PayPal-Konto eröffnen in weitergabe) geisen, gespricht und blimme diesen zu Weltere Informationen über PayPal-Konto	E-Mail-Adresse	0	
Rechnungsadresse         Mehringdamm 82         10965       Berlin         Image: Second Secon	Handy V Telefonn	ummer	
Mehringdamm 82         10965       Berlin         Image: Second	echnungsadresse		
10965       Berlin         Image: An meine Rechnungsadresse liefern         PayPal-Konto eröffnen (optional)         Sie können auch ohne PayPal-Konto fortfahren. Wenn Sie edoch ein Konto eröffnen (optional)         Sie können auch ohne PayPal-Konto fortfahren. Wenn Sie edoch ein Konto eröffnen, können Sie bei Problemen auf len PayPal-Käuferschutz zählen. Und Sie können in Ukunft beguern mit E-Mail-Adresse und Passwort zählen.         PayPal-Konto eröffnen? (Es dauert nur einen Moment.)         Ja, kostenloses PayPal-Konto eröffnen:         Image: In thin volligihrig, habe die Bedingungen und Detendhötzgrundsätze für Zahlungen dame PayPal-Konto (mitasive Datenverarbeitung und -weitergabe) geisen, gespecifiert und bilmme diesen zu Weitere Informationen über PayPal inde ich unter Weserdiche Hinweise zu unserem Bernie	Mehringdamm 82		
An meine Rechnungsadresse liefem PayPal-Konto eröffnen (optional) Sie körinen auch ohne PayPal-Konto fortfahren. Wenn Sie adoch ein Konto eröffnen, können Sie bei Problemen auf ten PayPal-Käuferschutz zählen. Und Sie körinen in fukunft beguern mit E-Mail-Adresse und Passwort zählen. PayPal-Konto eröffnen? (Es dauert nur einen Moment.) Ja, kostenloses PayPal-Konto eröffnen. Nein danke hin tin vollijtintig, habe die Bedingungen und Datemachdizgrundelize für Zuhlungen dame PayPal-Konto imfilosive Datenverarbeitung und -weitergabe) gelesen, gespechert und bilmme diesen zu. Weitere lifformationen deer PayPal Hote ich unter Wesendiche Hinwelse zu unseren	10965 Be	rlin	

# PayPal Plus Sample Shop





# PayPal Plus Sample Shop (debug UI, config, clear)

Sample Shop Hume / grishopping / showcart / checkaut

How do you want to pay? Choose your favorite way to spend some money:	Shipping De Shopping Cart	tails
PayPar	Bern Rugby Ball, Size 5 Total: €25.00	Quantity Price
Namula Natur	Shipping Address: recipient name:	Max Mustermany Mehringdatum 82
Receiving Pulling to one the employment hyperbolic	v postal code: oby	10965 Berlin
	country code: Shipping Options:	DE
	express shipping The outside continue bu	ition:
	1	1.4655764040

#### **Evans Unlimited**

Ihre persönlichen	Daten			
Ihre Adresse			Ändern	
Max Mustermann Mehringdamm 82 10965 Berlin				
E-Mall				
Geburtsdatum 📀				
TT ~ MM	1.1	LLLL	×	
Ich hatis die Bedrigung Zatkungen ohne ReyPa wertengabe( pelkeen ge Booldstagenitung ba	en und Daten -Romis priktaa operdnert und	echangrandsätte se Datertverschelts skrivite disserrativ	Sar ng sinit ng sinit	
Zurück	Custimme	n und fortfah	ren	



4

Subtotal

€ 25.00

att

€ 25.00

# 13. Appendix

# **13.1.** Technical Documentation

Account set up and configuration

#### Sandbox and User Guide

The PayPal Sandbox self-service testing environment

https://developer.paypal.com/ https://developer.paypal.com/webapps/developer/docs/classic/lifecycle/ug\_sandbox/

# **13.2.** API Documentation

**PayPal API Reference** https://developer.paypal.com/webapps/developer/docs/api/

**PayPal REST SDK:** https://github.com/paypal/PayPal-PHP-SDK/releases/tag/v1.2.1

# 13.3. Reporting

#### Settlement Report Specification (STL v7)

Detailed information about the structure of the daily Settlement Report https://cms.paypal.com/cms\_content/US/en\_US/files/developer/PP\_LRD\_Gen\_Settlemen tReport.pdf

#### **Transaction Details Report (TRR v10)**

Detailed information about the structure of the daily Transaction Details Report https://cms.paypal.com/cms\_content/US/en\_US/files/developer/PP\_LRD\_Gen\_Transactio nDetailReport.pdf

#### Downloadable Dispute Report (DDR v7)

Detailed information about the structure of the daily Dispute Report https://cms.paypal.com/cms\_content/US/en\_US/files/developer/PP\_LRD\_GenDisputeRep ort.pdf