

Adding the Giropay payment button

Implementation Guide

Document version 2.1

Contents

| 1. HISTORY OF THE DOCUMENT | 3 |
|---|----|
| 2. PRESENTATION | 4 |
| 3. TECHNICAL INFORMATION | 5 |
| 4. PREREQUISITES | 6 |
| 5. PAYMENT PROCESS | 7 |
| 6. ESTABLISHING INTERACTION WITH THE PAYMENT GATEWAY | 8 |
| 7. SETTING UP NOTIFICATIONS | 9 |
| 7.1. Setting up the Instant Payment Notification | 10 |
| 8. GENERATING A PAYMENT FORM | 11 |
| 8.1. Creating a Giropay payment request | 12 |
| 9. SENDING THE PAYMENT REQUEST | 14 |
| 9.1. Redirecting the buyer to the payment page | 14 |
| 9.2. Processing errors | |
| 10. ANALYZING THE PAYMENT RESULT | 15 |
| 10.1. Processing the response data | 15 |
| 11. MANAGING GIROPAY TRANSACTIONS FROM THE MERCHANT BACK OFFICE | |
| 11.1. Viewing transaction details | |
| 11.2. Manual reconciliation | |
| 12. OBTAINING HELP | |
| | |

| Version | Author | Date | Comment |
|---------|-------------------|------------|---|
| 2.1 | La Banque Postale | 12/16/2021 | Update of the chapter <i>Technical information</i>. Update of the chapter <i>Processing the response data</i>. |
| 2.0 | La Banque Postale | 2/11/2020 | Initial version |

This document and its contents are confidential. It is not legally binding. Any reproduction and / or distribution of all or part of this document or its content to a third party is strictly prohibited or subject to prior written authorization from La Banque Postale. All rights reserved.

| giro pay | Giropay is one of the most frequently used payment method in Germany. Based on wire transfer, it allows the buyer to be redirected to the secure payment site of his/her bank and thus to transfer the amount to pay to |
|---------------------------|--|
| | the merchant's account. The merchant receives a real-time confirmation of payment, allowing him to ship the order more quickly. |
| Supported currencies | • EUR |
| Supported countries | • Germany |
| Additional information | Debit is immediate (no capture delay). Transaction validation is automatic (no manual validation). No capture file is sent to the acquirer. |

3. TECHNICAL INFORMATION

| Field valuesSupportedvads_card_brandcurrencies | | Supported countries | Authorization validity period | Payment process |
|--|-----|------------------------|-------------------------------|-------------------|
| GIROPAY | EUR | DE | 0 | Immediate capture |

| Sales channel | |
|-----------------------------|---|
| e-commerce | < |
| m-commerce | × |
| MOTO payment | × |
| Payment order by e-mail/SMS | ~ |

| Operations with transactions | | | |
|------------------------------|---|--|--|
| Cancellation | × | | |
| Refund | × | | |
| Modification | × | | |
| Validation | × | | |
| Duplication | × | | |
| Manual reconciliation | * | | |

| Type of integration | | | | |
|----------------------|---|--|--|--|
| Redirection | < | | | |
| Iframe | × | | | |
| JavaScript Client | × | | | |
| Data collection form | ~ | | | |
| API Web Services | × | | | |
| Mobile SDK | × | | | |
| Back Office | * | | | |

| Payment type | |
|----------------------------------|---|
| Immediate payment | < |
| Deferred payment | × |
| Payment in installments | × |
| Payment by subscription | × |
| Payment by file (token or batch) | × |
| One-click payment | × |
| Payment by wallet | × |

| Miscellaneous | |
|------------------------|---|
| Reporting | ~ |
| Transaction settlement | ~ |
| Chargeback settlement | ~ |
| Extra payment attempts | × |

In order to enable the Giropay payment method:

- 1. Sign an acceptance contract with Giropay GmbH.
- 2. Contact the E-Banking Merchant Support Service to request the Giropay addition.
- 3. Provide them with your Giropay login credentials.
- 4. Once these elements have been validated, the Giropay payment method will be enabled for your shop.



You will find below the payment flow of a payment via Giropay:

The interaction with the payment gateway is described in the *Hosted Payment Page Implementation Guide*, available in our online documentation archive.

The merchant website and the payment gateway interact by exchanging data.

To create a payment, this data is sent in an HTML form via the buyer's browser.

At the end of the payment, the result is transmitted to the merchant website in two ways:

- automatically by means of notifications called Instant Notification URLs (also known as IPN or Instant Payment Notification).
- Via the browser when the buyer clicks the button to return to the merchant website.

To guarantee the security of the exchange, the data is signed with a key known only to the merchant and the payment gateway.

There are several types of notifications provided in the Merchant Back Office.

- Instant Payment Notification URL call
- E-mail sent to the merchant
- E-mail sent to the buyer
- SMS sent to the merchant
- SMS sent to the buyer

They allow to manage the events (payment accepted, payment abandoned by the buyer, payment canceled by the merchant, payment validated by the merchant, etc.) that will trigger a notification sent to the merchant website, the merchant or the buyer.

The notifications of Instant Payment Notification URL call type are very important as they represent the only reliable way for the merchant website to obtain the payment result.

If the payment gateway is unable to access the URL of your page, an e-mail will be sent to the shop administrator.

It contains:

- The HTTP code of the encountered error,
- Parts of error analysis,
- Its consequences,
- Instructions via the Merchant Back Office to resend the request to the previously defined URL.

To access notification rule management:

Go to the following menu: Settings > Notification rules.

| Linstant Payment Notification E-mail sent to the merchant E-mail sent to the buyer | | | | |
|--|---------|---|--|--|
| | Enabled | - | Reference | |
| × | | | Instant Payment Notification URL on batch authorization | |
| v | | | Instant Payment Notification URL at the end of the payment | |
| × | | | Instant Payment Notification URL on batch change | |
| × | | | Instant Payment Notification URL on cancellation | |
| × | | | Instant Payment Notification URL on an operation coming from the Back Office | |

7.1. Setting up the Instant Payment Notification

This rule allows to notify the merchant website in the following cases:

- Payment accepted
- Payment refused

This notification is required to communicate the result of the payment request.

It will inform the merchant website of the payment result even if your client has not clicked the "Return to the shop" button.

- 1. Right-click Instant Payment Notification URL at the end of the payment.
- 2. Select Manage the rule.
- Enter the E-mail address(es) to notify in case of failure field in the General settings section. To specify several e-mail addresses, separate them with a semi-colon.
- 4. Check the box Automatic retry in case of failure if you wish to authorize the gateway to automatically resend the notification in case of a failure (can be done up to 4 times).
- 5. In the **Instant Payment Notification URL of the API form V1, V2** section, specify the URL of your page in the fields **URL to notify in TEST mode** and **URL to notify in PRODUCTION mode** if you wish to receive notifications in the API form format.
- 6. Save the changes.

To generate a payment request, you must create an HTML form as follows:

```
<form method="POST" action="https://scelliuspaiement.labanquepostale.fr/vads-payment/">
<input type="hidden" name="parameter1" value="value1" />
<input type="hidden" name="parameter2" value="value2" />
<input type="hidden" name="parameter3" value="value3" />
<input type="hidden" name="signature" value="signature"/>
<input type="submit" name="pay" value="Pay"/>
</form>
```

It contains:

- The following technical elements:
 - The <form> and </form> tags that allow to create an HTML form.
 - The method="POST" attribute that defines the method used for sending data.
 - The action="https://scelliuspaiement.labanquepostale.fr/vads-payment/" attribute that defines
 where to send the form data.
- Form data:
 - The shop ID.
 - Information about the payment depending on the use case.
 - Additional information depending on your needs.
 - The signature that ensures the integrity of the form.

This data is added to the form by using the <input> tag:

<input type="hidden" name="parameter1" value="value1" />

For setting the name and value attributes, see the **Data dictionary** chapter also available in the online document archive.

All the data in the form must be encoded in UTF-8.

This will allow for the special characters (accents, punctuation marks, etc.) to be correctly interpreted by the payment gateway. Otherwise, the signature will be computed incorrectly and the form will be rejected.

• The Pay button for submitting the data:

<input type="submit" name="pay" value="Pay"/>

Different use cases are presented in the chapters below. This information will allow you to adapt your payment form to your needs.

| Notation | Description |
|-----------|--|
| а | Alphabetic characters (from 'A' to 'Z' and from 'a' to 'z') |
| n | Numeric characters |
| S | Special characters |
| an | Alphanumeric characters |
| ans | Alphanumeric and special characters (except '<' and '>') |
| 3 | Fixed length of 3 characters |
| 12 | Variable length up to 12 characters |
| json | JavaScript Object Notation. Object containing key/value pairs separated by commas. It starts with a left brace "{" and ends with a right brace "}". Each key / value pair contains the name of the key between double-quotes followed by " : ", followed by a value. The name of the key must be alphanumeric. The value can be: • a character string (in this case it must be framed by double quotes) • a number • an object • a table • a boolean • empty |
| | <pre>Example: {"name1":45,"name2":"value2", "name3":false}</pre> |
| bool | Boolean. Can be populated with the true or false value. |
| enum | Characterizes a field with a complete list of values. The list of possible values is given in the field definition. |
| Enum list | List of values separated by a ";". The list of possible values is given in the field definition. Example: vads_payment_cards=VISA; MASTERCARD |
| map | List of key / value pairs separated by a "; ". Each key / value pair contains the name of the key followed by " = ", followed by a value. The value can be: |
| | a chain of characters |
| | • a boolean |
| | a json object |
| | an xml object |
| | The list of possible values for each key/value pair is provided in the field definition. Example: vads_theme_config=SIMPLIFIED_DISPLAY=true;RESPONSIVE_MODEL=Model_1 |

The following table lists the different formats that you can encounter when building your form.

8.1. Creating a Giropay payment request

1. Use all the fields presented in the table below to create your payment form.

| Field name | Description | Format | Value |
|--------------------|---|--------|--|
| vads_payment_cards | Allows to force the card type to be used. Leave empty to let the Buyer choose between the eligible payment methods (depending on the currency, the minimum or maximum amount, the technical constraints) associated with the shop. | enum | GIROPAY to directly call the Giropay payment button. VISA;GIROPAY to provide the choice between VISA and Giropay. |
| vads_page_action | Action to perform | enum | PAYMENT |
| vads_amount | Payment amount in the smallest currency unit(cents for euro). | n12 | E.g.: 4525 for EUR 45.25 |
| vads_ctx_mode | Mode of interaction with the payment gateway | enum | TEST orPRODUCTION |
| vads_currency | Numeric currency code to be used for the payment, in compliance with the ISO 4217 standard (numeric code). | n3 | Possible value:978 (EUR) |
| vads_action_mode | Acquisition mode for payment method data | enum | INTERACTIVE |
| vads_payment_confi | Payment type | enum | SINGLE |
| vads_site_id | Shop ID | n8 | E.g.: 12345678 |
| vads_trans_date | Date and time of the payment form in UTC format | n14 | Respect the YYYYMMDDHHMMSS format E.g.: 20200101130025 |
| vads_trans_id | Transaction number. Must be unique within the same day (from 00:00:00 UTC to 23:59:59 UTC). Warning: this field is not case sensitive. | an6 | E.g.: xrT15p |
| vads_version | Version of the exchange protocol with the payment gateway | enum | V2 |

- 2. Add optional fields according to your requirements (see Using additional features chapter of the *Implementation Guide Hosted Payment Page*).
- 3. Compute the value of the **signature** field using all the fields of your form that start with **vads** (see chapter **Computing the signature** of the *Implementation Guide Hosted Payment Page* available on our website).

The buyer will be able to finalize his/her purchase once he/she is redirected to the payment page.

The buyer's browser must transmit the payment form data.

9.1. Redirecting the buyer to the payment page

The URL of the payment gateway is:

https://scelliuspaiement.labanquepostale.fr/vads-payment/

Example of parameters sent to the payment gateway:

| <form m<="" th=""><th>nethod="POST" a</th><th>action="https://scelliuspaiement.labanquepostale.fr/vads-payment/"></th></form> | nethod="POST" a | action="https://scelliuspaiement.labanquepostale.fr/vads-payment/"> |
|---|-----------------|---|
| <input< td=""><td>type="hidden"</td><td><pre>name="vads action mode" value="INTERACTIVE" /></pre></td></input<> | type="hidden" | <pre>name="vads action mode" value="INTERACTIVE" /></pre> |
| <input< td=""><td>type="hidden"</td><td>name="vads amount" value="1315" /></td></input<> | type="hidden" | name="vads amount" value="1315" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads currency" value="978" /></td></input<> | type="hidden" | name="vads currency" value="978" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads cust id" value="1234" /></td></input<> | type="hidden" | name="vads cust id" value="1234" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads cust email" value="jg@sample.com" /></td></input<> | type="hidden" | name="vads cust email" value="jg@sample.com" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads ctx mode" value="TEST" /></td></input<> | type="hidden" | name="vads ctx mode" value="TEST" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads order id" value="CMD012859" /></td></input<> | type="hidden" | name="vads order id" value="CMD012859" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads page action" value="PAYMENT" /></td></input<> | type="hidden" | name="vads page action" value="PAYMENT" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads payment cards" value="VISA;MASTERCARD" /></td></input<> | type="hidden" | name="vads payment cards" value="VISA;MASTERCARD" /> |
| <input< td=""><td>type="hidden"</td><td><pre>name="vads payment config" value="SINGLE" /></pre></td></input<> | type="hidden" | <pre>name="vads payment config" value="SINGLE" /></pre> |
| <input< td=""><td>type="hidden"</td><td>name="vads site id" value="12345678" /></td></input<> | type="hidden" | name="vads site id" value="12345678" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads trans date" value="20200326101407" /></td></input<> | type="hidden" | name="vads trans date" value="20200326101407" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads trans id" value="362812" /></td></input<> | type="hidden" | name="vads trans id" value="362812" /> |
| <input< td=""><td>type="hidden"</td><td>name="vads version" value="V2" /></td></input<> | type="hidden" | name="vads version" value="V2" /> |
| <input< td=""><td>type="hidden"</td><td><pre>name="signature" value="NM25DPLKEbtGEHCDHn8MBT4ki6aJI/ODaWhCzCnAfvY="/></pre></td></input<> | type="hidden" | <pre>name="signature" value="NM25DPLKEbtGEHCDHn8MBT4ki6aJI/ODaWhCzCnAfvY="/></pre> |
| <input< td=""><td>type="submit"</td><td><pre>name="pay" value="Pay"/></pre></td></input<> | type="submit" | <pre>name="pay" value="Pay"/></pre> |
| | > | |

9.2. Processing errors

If the payment gateway detects an error while receiving the form, an error message will appear and the buyer will not be able to proceed to the payment.

In TEST mode

The message indicates the source of the error and provides a link to the error code description to help you fix it.

In PRODUCTION mode

The message simply indicates to the buyer that a technical problem has occurred.

In both cases the merchant receives a notification e-mail.

It contains:

- the source of the error,
- a link to possible causes to facilitate its analysis,
- all the fields of the form.

A description of the error codes with their possible causes is available on our website

https://scelliuspaiement.labanquepostale.fr/doc/fr-FR/error-code/error-00.html

The analysis of the payment result is described in the **Hosted payment page Implementation Guide** available in our online documentation archive (*https://scelliuspaiement.labanquepostale.fr/doc/fr-FR/*).

This document only describes the steps of processing data relative to the response of a payment made by **Giropay** wire transfer.

10.1. Processing the response data

Here is an example of analysis to guide you through processing the response data.

1. Identify the order by retrieving the value of the **vads_order_id** field if you have transmitted it in the payment form.

Make sure that the order status has not been updated yet.

2. Retrieve the payment result transmitted in the vads_trans_status field.

Its value allows you to define the order status.

| VALUE | DESCRIPTION |
|-----------|---|
| CAPTURED | Captured |
| | The transaction is accepted. |
| | It is visible in the Captured transactions tab. |
| | Debit is immediate (no capture file is sent to the acquirer). |
| REFUSED | Refused |
| | Transaction is declined. |
| ABANDONED | Abandoned |
| | Payment abandoned by the buyer |
| | The transaction has not been created, and therefore cannot be |
| | viewed in the Merchant Back Office. |

- 3. Retrieve the payment reference transmitted in the vads_trans_id field.
- 4. Retrieve the field **vads_trans_uuid** containing the transaction generated unique reference by the payment server.
- 5. Retrieve the value of the vads_trans_date field to identify the payment date.
- 6. Retrieve the used amount and currency. To do this, retrieve the values of the following fields:

| Field name | Description |
|---------------|--|
| vads_amount | Payment amount in the smallest currency unit. |
| vads_currency | Numeric code of the currency used for the payment. |

7. Retrieve the payment method data used for the payment by analyzing the following fields:

| Field name | Description |
|---------------------|--|
| vads_card_brand | Used payment method. Populated with GIROPAY. |
| vads_acquirer_netwo | Acquirer network code. Populated with GIROPAY . |

8. Retrieve all the order, buyer and shipping details.

These details will be provided in the response only of they have been transmitted in the payment form.

Their values are identical to the ones submitted in the form.

9. Proceed to order update.

11.1. Viewing transaction details

- 1. From the Management > Transactions menu, select the tab of your choice.
 - Accepted Giropay transactions can be viewed in the Captured transactions tab.
 - Declined Giropay transactions can be viewed in the Transactions is progress tab.
- 2. Double click the desired transaction.

11.2. Manual reconciliation

- 1. From the Management > Transactions menu, select the Captured transactions tab.
- 2. Right-click a Giropay transaction.
- 3. Select Manual reconciliation.
- Confirm that you wish to perform a manual reconciliation for the selected transaction. The Comment dialog box appears.
- 5. Enter a comment for this reconciliation.
- 6. Click OK.

The status of the reconciliation changes to **Reconciled**.

12. OBTAINING HELP

Looking for help? Check our FAQ on our website

https://scelliuspaiement.labanquepostale.fr/doc/en-EN/faq/sitemap.html

For any technical inquiries or if you need any help, contact *technical support*.

In view of facilitating the processing of your requests, please specify your shop ID (an 8-digit number) in your query

This information is available in the "registration of your shop" e-mail or in the Merchant Back Office (Settings > Shop > Configuration).