


PayPal V2

About PayPal

Logo	
Info	<p>Computop processes PayPal payments, which offers you worldwide merchant protection and a potential of 425 million international customers in more than 200 countries.</p> <p>PayPal is one of the most popular online payment methods and it can be used in e- and m-Commerce.</p>
Type	Payments by eWallet

General information about PayPal

PayPal has remained at the forefront of the digital payment revolution for more than 20 years. By leveraging technology to make financial services and commerce more convenient, affordable, and secure, the PayPal platform is empowering more than 425 million customers and merchants in more than 200 markets to join and thrive in the global economy.

Customers in Germany can pay via direct debit, giro pay or credit card (American Express, Diners Club, Discover, MasterCard, Visa). Members log into their PayPal account with their email address and a password during checkout and choose the preferred funding source - direct debit, credit card, PayPal credit (Pay Later) and, if applicable purchase on account or by instalment.

For more details visit <https://www.paypal.com/>.

PayPal Shortcut (former "Express Checkout Shortcut (ECS)")

Computop Paygate offers the PayPal Shortcut to shorten the order process: Your customer does not need to enter any address data but rather click on Checkout with PayPal in the shopping cart area, log on and select the invoice- and delivery address retained by PayPal. Paygate then sends the delivery address as a result parameter back to your shop.

Buyers and vendors are protected

PayPal offers buyers and merchants extensive buyer/vendor protection in case "Pay with PayPal" is used as payment method (this excludes alternative payment methods). Buyers are able to claim money back from PayPal in the event of non-fulfilment of a contract of sale. With address verification and PayPal seller protection PayPal removes the merchant of the risk of payment failures in the case of direct debit payments, German credit card payments and unjustified customer complaints. Vendor protection is always linked to PayPal rules and conditions. PayPal risk management with buyer protection and address verification is provided to you via the Computop Paygate.

Payment online globally

PayPal is particularly beneficial for overseas customer acquisition. Computop Paygate supports all currencies and markets offered by PayPal. In many countries PayPal offers customers typical payment methods for their country. Customers abroad can often use typical payment methods such as prepaid cards in Italy or debit cards in the UK. Integrating PayPal into your shop provides the option to present your customers several payment methods at once. Of course you are also free to just present "Pay with PayPal" only.

Advantages of Orders V2 ("PayPal Checkout")

Orders V2 has the following advantages against PayPal NVP and SOAP.

- Orders V2 is the **basis for any future development of products and featured** by PayPal. PayPal will not develop any new feature/extend existing functionality based on PayPal NVP and SOAP anymore.
- Orders V2 adheres to the latest compliance standards.
- Orders V2 offers smoother checkout process using a lightbox (by using JS SDK, so-called "PayPal Mini Browser"), a window overlay that appears on top of the merchant's online shop page. This allows the customer to stay on merchant's page and to not lose focus.

Further information can be found on the webpage of PayPal (<https://www.paypal.com/>).

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Important information

i Please note that, unlike our currency table, the currencies HUF (Hungarian Forints), JPY (Japanese Yen) and TWD (Republic of China Taiwan-Dollars) must be given without decimal places.

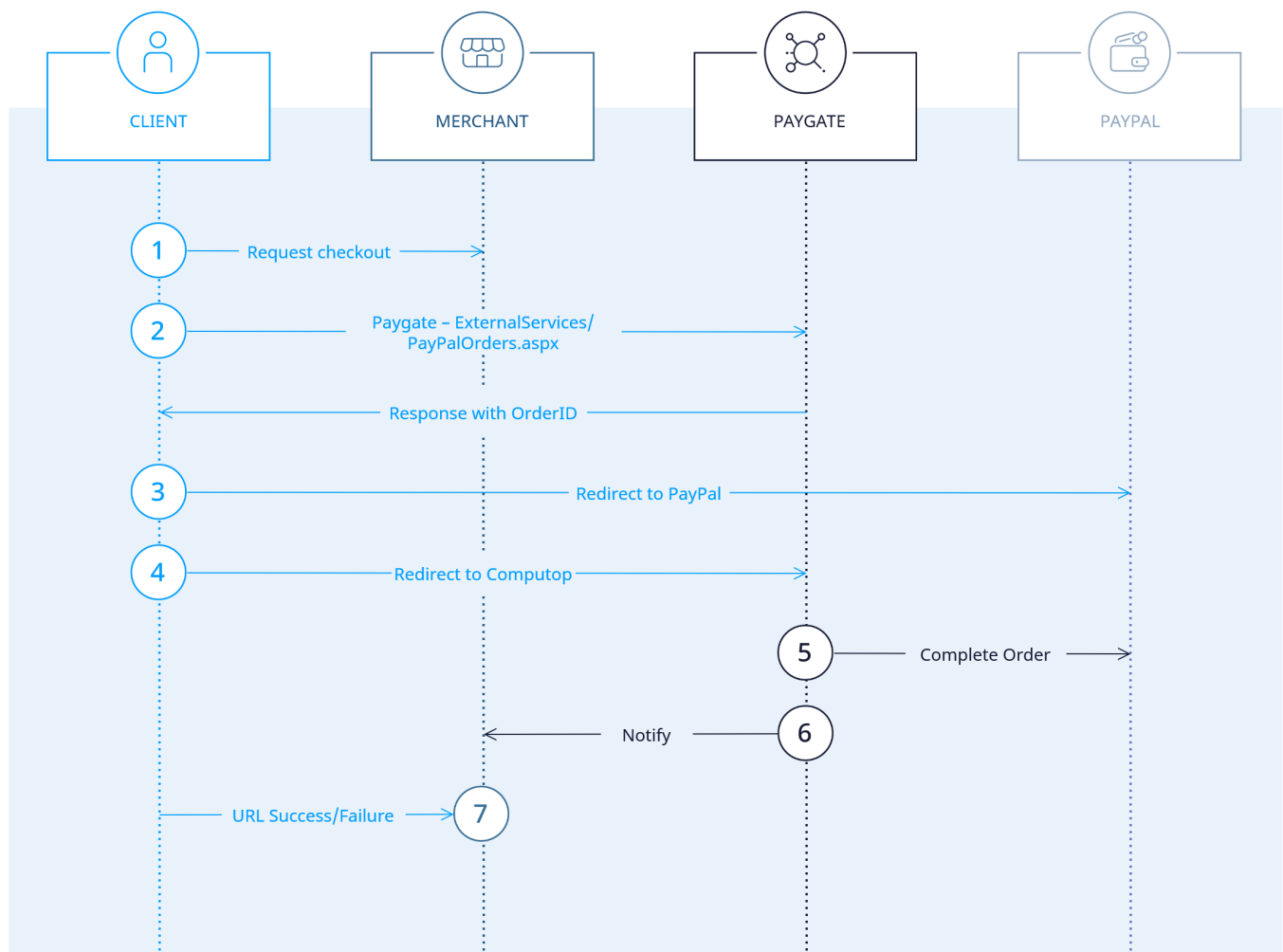
Example: To transfer 100.00 HUF one enters the amount=100.

This exception applies only for the PayPal payment method. For more details refer to <https://developer.paypal.com/reference/currency-codes/>.

i If you want to use the MassPay functionality, please contact the [Computop Helpdesk](#) to activate this function for you.

- Request
- Response
- Batch processing via the interface

Process flow



PayPal process flow

Configuration for PayPal

PayPal Sandbox test account

If you prefer to test the integration before going Live, and you do not have PayPal Sandbox test account, you should create PayPal Sandbox test account as first step.

1. Login to <https://developer.paypal.com/> and go to "Testing Tools" => "Sandbox Accounts"

The screenshot shows the 'Sandbox test accounts' page in the PayPal Developer Dashboard. The page title is 'Sandbox test accounts'. Below the title, there is a description: 'Test your application and mimic live transactions using sandbox test accounts.' followed by two bullet points: 'Default personal and business accounts have been created for you.' and 'Create and manage more sandbox accounts as needed.' Below this, there is a link to 'authenticate with the credentials of the test account you want to link.' and a link to 'international developer questions'. There is also a link to 'Sandbox Testing Guide'. Below the links, there is a section 'Sandbox Accounts:' with a 'Total Accounts: 5' and two buttons: 'Create bulk accounts' and 'Create account'. Below this is a table with columns: 'Account name', 'Type', 'Country', 'Date created', and a settings icon. The table contains two rows: one for a Business account (sb-01mt25433263@business.example.com) created on 3 Apr 2023, and one for a Personal account (sb-mdjvhv20296944@personal.example.com) created on 18 Aug 2022.

Account name	Type	Country	Date created	
sb-01mt25433263@business.example.com	Business	DE	3 Apr 2023	
sb-mdjvhv20296944@personal.example.com	Personal	DE	18 Aug 2022	

2. Click "Create account" and choose "Business (Merchant Account)" & Germany as "Country / Region".

The screenshot shows the 'Create Sandbox Account' page in the PayPal Developer Dashboard. The page title is 'Create Sandbox Account'. Below the title, there is a description: 'Choose your account type and country that will be used for live payments.' Below this, there is a section 'Account Type' with two radio buttons: 'Personal (Buyer Account)' and 'Business (Merchant Account)'. The 'Business (Merchant Account)' option is selected. Below this is a section 'Country / Region' with a dropdown menu showing 'Germany'. Below the dropdown is a 'Create' button. At the bottom, there is a question 'Do you want a more customized account?' with a link 'Create custom account'.

PayPal Developer Dashboard

Search

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Sandbox ☒ Live

You're in sandbox mode.

Sandbox test accounts

✓ The sandbox account was created successfully.

Test your application and mimic live transactions using sandbox test accounts.

- Default personal and business accounts have been created for you.
- Create and manage more sandbox accounts as needed.

To link other accounts created in sandbox to your developer account, [authenticate with the credentials of the test account you want to link](#).

Developers outside of the US should read our [international developer questions](#).

See also: the [Sandbox Testing Guide](#).

Sandbox Accounts: [Create bulk accounts](#) [Create account](#)

Total Accounts: 6

<input type="checkbox"/> Account name	Type	Country	Date created	⚙
<input type="checkbox"/> sb-v2fgv25433561@business.example.com	Business	DE	3 Apr 2023	⋮
<input type="checkbox"/> sb-o1mty25433263@business.example.com	Business	DE	3 Apr 2023	⋮

3. Choose "View/Edit account"

PayPal Developer Dashboard

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<input type="checkbox"/> Account name	Type	Country	Date created	⚙
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<input type="checkbox"/> sb-mdjvh20296944@personal.example.com	Personal	DE	18 Aug 2022	⋮

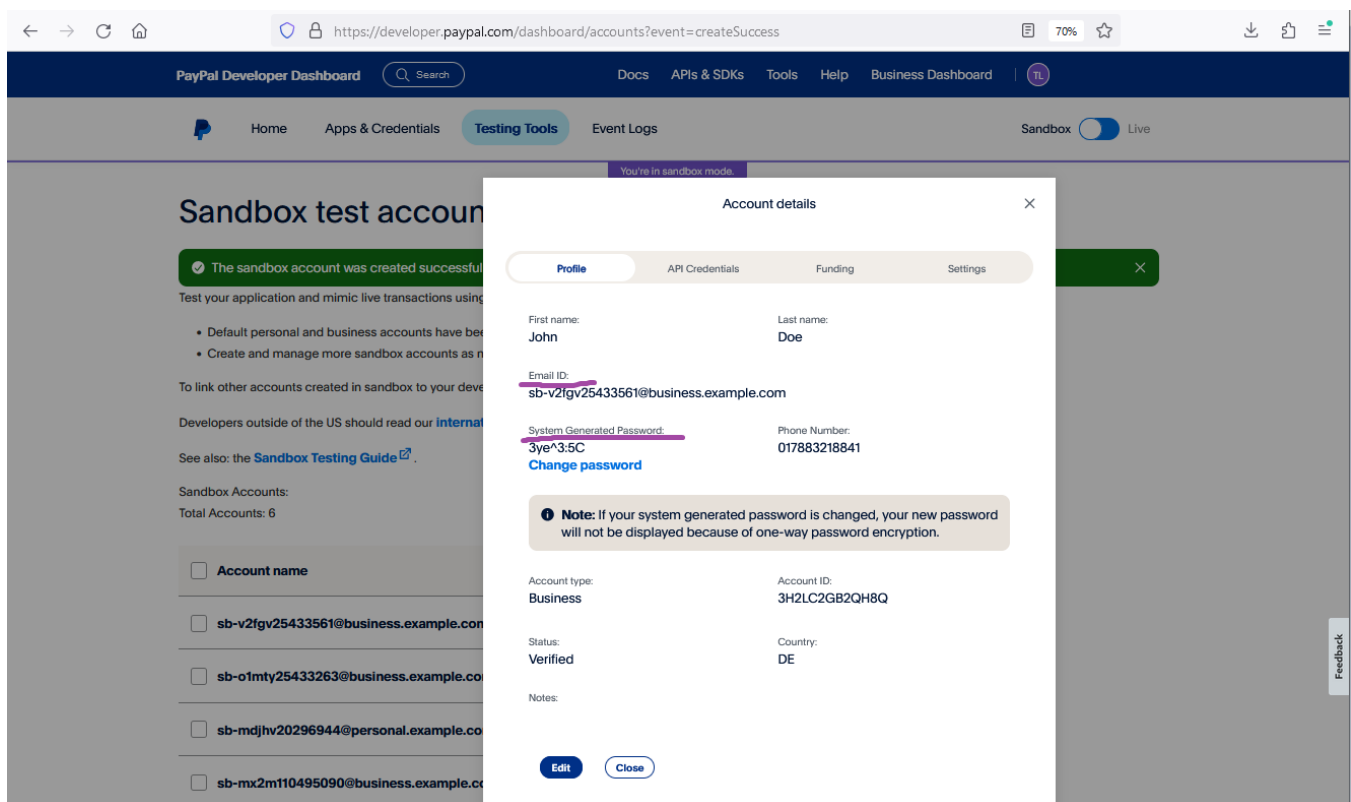
View/Edit account

Duplicate account

View notifications

Delete

4. Take "Email ID" and "System Generated Password" and use them as Login/Pass for Sandbox on the next step.



Grant permissions to Computop Paygate for transaction processing

In order to allow Computop processing transactions on your behalf, corresponding permissions should be granted to Computop.

Permissions can be granted to Computop under your PayPal account. Please use the following links to login into your PayPal account and follow the steps.

[Sign up for PayPal Sandbox](#)

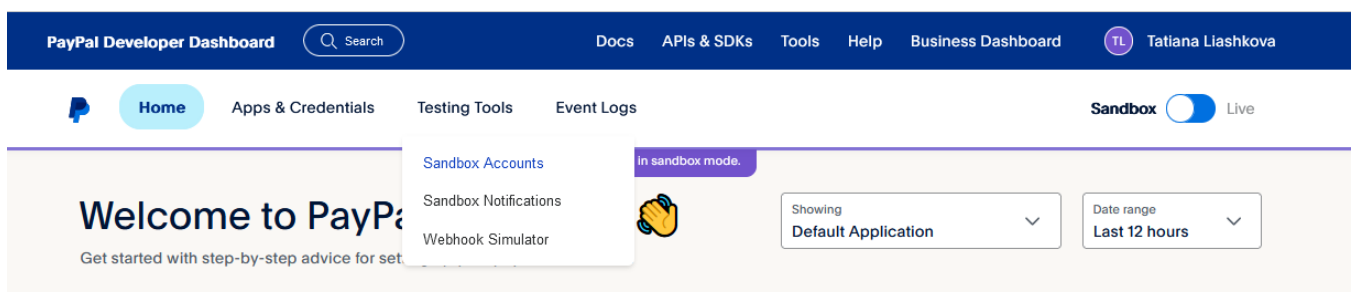
[Sign up for PayPal Production](#)

Send PayerID to Computop Merchant Services

To complete merchant setup on Computop side, you should send PayerID to Computop Merchant Services.



PayPal Sandbox

1. Login to <https://developer.paypal.com/dashboard> and go to "Testing tools" --> "Sandbox Accounts".



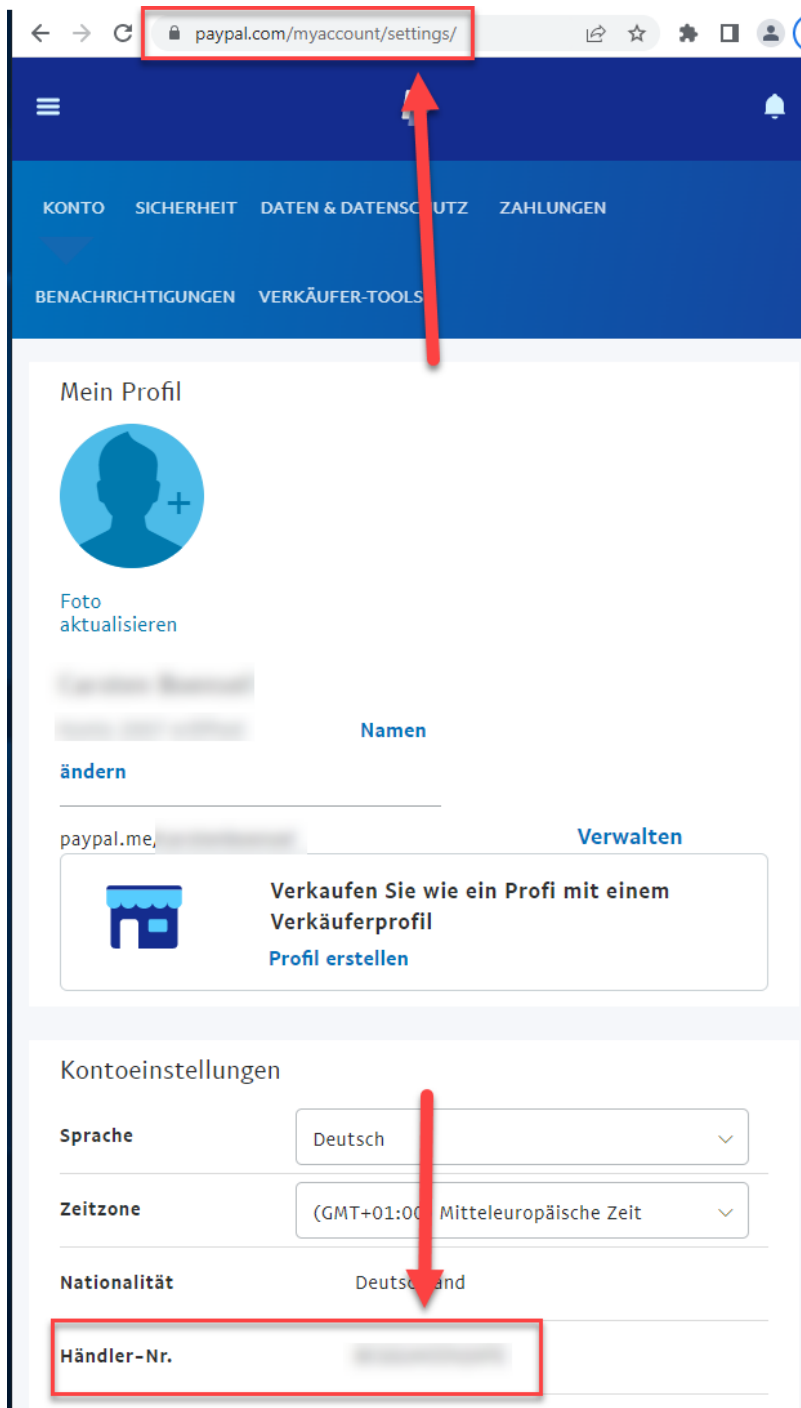
2. Select the appropriate Sandbox merchant account and notify Merchant Services about "Account ID".

Sandbox account info

Name	John Doe 	PayPal balance	5.000,00 EUR 
Phone	017883218841	Bank account number	Not available
Account type	Business	Bank routing number	Not available
Account ID	3H2LC2GB2QH8Q	Credit card number	4020021063170520
Status	Verified	Credit card type	VISA
Country	DE	Expiration date	05/2028

PayPal Production

PayerID can be found under your PayPal account by <https://paypal.com/myaccount/settings/> , as follows. PayerID uniquely identifies merchant in PayPal. The identifier is the same for Sandbox and Production environments.



PayPal Smart Button

Setting up the PayPal Button

The client-side implementation of PayPal is realized using the PayPal JavaScript SDK.

Depending on your setup, you can use the following script or prepare you own, using the official PayPal JavaScript SDK documentation <https://developer.paypal.com/sdk/js/reference/#link-buttons>.





While you are testing in sandbox, you can use `client-id` that matches your test app from PayPal web developer portal. When going live, replace this with the live `client-id`.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8"/>
</head>

<body>
  <!-- Set up a container element for the button -->
  <div id="paypal-button-container"></div>

  <!-- Include the PayPal JavaScript SDK -->
  <!-- Replace <PayerID> with your value, available under your PayPal account -->
  <!-- Replace <Currency> with the currency which should be used, e.g., EUR -->
  <!-- When going live, replace client-id with the live client-id provided by Computop -->
  <!-- When going live, replace data-partner-attribution-id with the live data-partner-attribution-id
  provided by Computop -->
  <script type="text/javascript" src="https://www.paypal.com/sdk/js?client-
id=ARCSdK7xBFxa5pnGxk8qvB0STB07fyi_yHDRrb5al6gxahj73Pxg9X2l7onP9J2IN-LqcVJ0jys94FLK&merchant-
id=<PayerID>&currency=<Currency>&disable-funding=giropay,sofort,sepa,card&intent=capture" data-partner-
attribution-id="Computop_PSP_PCP_Test"></script>
  <!-- Initialize and show PayPal button -->
  <script type="text/javascript">
    let mid = "YOUR MERCHANTID";
    let len = "LEN OF UNENCRYPTED BLOWFISH STRING";
    let data = "BLOWFISH ENCRYPTED STRING";
    let payid;

    if (len != '' && data != '') {
      // Set the request parameter MerchantID, Len and Data
      const params = new URLSearchParams({
        MerchantID: mid,
        Len: len,
        Data: data
      });

      // Render the PayPal button into #paypal-button-container
      paypal.Buttons({
        // Call your server to set up the transaction
        createOrder: function(data, actions) {
          return fetch('https://www.computop-paygate.com/ExternalServices/paypalorders.aspx', {
            method: 'POST',
            body: params
          }).then(function(res) {
            return res.text();
          }).then(function(orderData) {
            let qData = new URLSearchParams(orderData)
            payid = qData.get('PayID');
            return qData.get('orderid');
          });
        },
        // Call cbPayPal.aspx for continue sequence
        onApprove: function (data, actions) {
          var rd = "MerchantId=" + mid + "&PayId=" + payid + "&OrderId=" + data.orderID;
          // Build an invisible form and directly submit it
          const form = document.createElement('form');
          form.method = 'POST';
          form.action = 'https://www.computop-paygate.com/cbPayPal.aspx?rd=' +
window.btoa(rd);

          form.style.display = 'none';
          // Add form to body
          document.body.appendChild(form);
          // Submit form
          form.submit();
        },
        onCancel: function (data, actions) {
```



```

        var rd = "MerchantId=" + mid + "&PayId=" + payid + "&OrderId=" + data.orderID;
        // Build an invisible form and directly submit it
        const form = document.createElement('form');
        form.method = 'POST';
        form.action = "https://www.computop-paygate.com/cbPayPal.aspx?rd=" + window.btoa(rd) +
"&ua=cancel&token=" + data.orderID;
        form.style.display = 'none';
        // Add form to body
        document.body.appendChild(form);
        // Submit form
        form.submit();
    },
    onError: function (data, actions) {
        var rd = "MerchantId=" + mid + "&PayId=" + payid + "&OrderId=" + data.orderID;
        // Build an invisible form and directly submit it
        const form = document.createElement('form');
        form.method = 'POST';
        form.action = "https://www.computop-paygate.com/cbPayPal.aspx?rd=" + window.btoa(rd) +
"&ua=cancel&token=" + data.orderID;
        form.style.display = 'none';
        // Add form to body
        document.body.appendChild(form);
        // Submit form
        form.submit();
    }
  }).render('#paypal-button-container');
}
</script>

</body>
</html>

```

Enabling PayPal Pay Later Button

The above piece of code contains the following line. In this line it will be possible to define which funding sources will be allowed in the web shop.

```
<script type="text/javascript" src="https://www.paypal.com/sdk/js?client-id=sb&currency=EUR&disable-funding=giropay,sofort,sepa,card&intent=capture"></script>
```

The line corresponded to the following button. By default (using the above line) only PayPal button will be available.



If it is required to have PayPal Pay Later Button in addition to standard PayPal button, the button can be enabled by using parameter **enable-funding** like follows.

```
<script type="text/javascript" src="https://www.paypal.com/sdk/js?client-id=sb&currency=EUR&disable-funding=giropay,sofort,sepa,card&enable-funding=paylater"></script>
```

As a result the following two buttons will appear.



Full list of values for **disable-funding** and **enable-funding** can be found by the link below.

<https://developer.paypal.com/docs/regional/th/checkout/reference/customize-sdk/#components>

Parameter intent

The above piece of code contains the following line.

```
<script type="text/javascript" src="https://www.paypal.com/sdk/js?client-id=sb&currency=EUR&disable-funding=giropay,sofort,sepa,card&intent=capture"></script>
```

Paygate offers 3 possible options for a payment.

- SALE (capture=Auto) (when Paygate automatically sends Capture for a payment; this is the default scenario matching most merchant's needs)
- AUTHORIZE (capture=Manual + txtype=Auth) (when Capture should be sent later by the merchant as a separate API call)
- ORDER (capture=Manual + txtype=Order) (when Authorize and Capture should be sent later by the merchant as separate API calls)

Parameter **intent** in the above line must be in synch with these options.

If SALE option is used, parameters **intent** must be set to "capture" as below.

```
<script type="text/javascript" src="https://www.paypal.com/sdk/js?client-id=sb&currency=EUR&disable-funding=giropay,sofort,sepa,card&intent=capture"></script>
```

If AUTHORIZE or ORDER option is used, parameters **intent** must be set to "authorize" as below.

```
<script type="text/javascript" src="https://www.paypal.com/sdk/js?client-id=sb&currency=EUR&disable-funding=giropay,sofort,sepa,card&intent=authorize"></script>
```

It is important to set proper value for parameter **intent**, otherwise an error appears.

PayPal Button Style

The above piece of code for PayPal Button does not have any style-related parameters. This piece of code assumes default PayPal style for the button as follows.



PayPal allows to define different PayPal Button style by using parameters shape, color, layout and label. Full list of style-related parameters can be found by the following link.

<https://developer.paypal.com/docs/checkout/advanced/style-guide/>

Paygate interface

Definitions

Data formats

Format	Description
a	alphabetical
as	alphabetical with special characters
n	numeric
an	alphanumeric
ans	alphanumeric with special characters
ns	numeric with special characters
bool	boolean expression (true or false)
3	fixed length with 3 digits/characters

..3	variable length with maximum 3 digits/characters
enum	enumeration of allowed values
dtm	ISODateTime (YYYY-MM-DDThh:mm:ss)

Abbreviations

Abbreviation	Description	Comment
CND	condition	
M	mandatory	If a parameter is mandatory, then it must be present
O	optional	If a parameter is optional, then it can be present, but it is not required
C	conditional	If a parameter is conditional, then there is a conditional rule which specifies whether it is mandatory or optional

Notice: Please note that the names of parameters can be returned in upper or lower case.

Calling the interface

Use the following URL and parameters to initiate a PayPal payment in the Paygate form:

<https://www.computop-paygate.com/ExternalServices/paypalorders.aspx>

With this URL Paygate supports two different PayPal methods: One the one hand you can offer PayPal quite normally as an additional payment method for the conclusion of a sale. Otherwise you can use PayPal Express Checkout Shortcut, which connects the customers from the shopping cart directly to PayPal, where they can then select their delivery and invoicing address. The customer saves having to re-enter address details and you, as the merchant, enjoy PayPal vendor protection.

Paygate also supports the separation of authorisation and capture for PayPal Express Checkout. You can set parameters via the Paygate to control whether the amount on the customer's PayPal account should be blocked or captured immediately.

Notice: One of the following conditions must be fulfilled to enable you to benefit from PayPal seller protection. Either the customer uses PayPal Express Checkout and selects a delivery address which it has saved previously with PayPal, which Paygate transmits to your shop. Or your shop transmits the already known delivery address to PayPal. Seller protection applies only if the goods have been supplied to this specified address. There may be no more than 3 days between the authorisation of the amount in the customer's PayPal account and capture if you wish to benefit from seller protection. Paygate therefore supports several alternatives for the processing of PayPal payments: we shall be happy to advise you about the implementation of PayPal.


Notice: For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

Key	REST	Format	CND	Description
MerchantID	BasicAuth. Username	ans..30	M	MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
refnr	"referenceNumber": "..."	ns..30	O	Merchant's unique reference number
Amount	"amount": { "value": ...}	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit). If OrderDesc(n) is used, there must be valid: Amount=ItemTotal+TaxTotal+SHAmount.
Currency	"amount": { "currency": "..."} "currency": "..."	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .

MAC	---	an64	M	<p>Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here:</p> <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify)
Capture	<pre>"capture": {"auto": "Yes"} "capture": {"manual": "Yes"}</pre>	a..6	O	<p>Auto or Manual: determines whether the requested amount is settled immediately or at a later stage.</p> <p>Important Note: Please contact Computop Helpdesk for Manual, to discuss different possibilities of usage.</p>
TxType	<pre>"payment": {"card": {"transactionType": "Order" }} "payment": {"card": {"transactionType": "Auth" }} "payment": {"card": {"transactionType": "BAID" }}</pre>	ans..5	C	<p>Obligatory for Capture=Manual: Transaction type with possible values Order or Auth.</p> <p>For initial Billing Agreement transaction (Billing Agreement creation) TxType=BAID. In case TxType=BAID, all parameters except the following are optional. RefNr MUST be unique for each Billing Agreement creation transaction.</p> <ul style="list-style-type: none"> MerchantID TransID RefNr Amount Currency OrderDesc TxType URLSuccess URLFailure URLNotify MAC
PayPal Method	<pre>"payment": {"paypal": {"method": "... " }}</pre>	enum	O	<p>The "shortcut" value selects the changed transaction procedure which takes the customer back to the shop for payment confirmation.</p> <p>You then need to call up the interface paypalcomplete.aspx to complete the sale.</p>
RTF	---	ans1	O	Reserved for future use
OrderDesc	<pre>"order": {"description": "..."} "..."</pre>	ans..127	M	Description of purchased goods, unit prices etc.
OrderDesc(n)	<pre>"order": {"items": "..."} "..."</pre>	ans..2048	O	<p>Customers shopping basket in the form:</p> <p>OrderDesc(n)=Name,Amount,Number,Quantity,Description,Tax</p> <p>OrderDesc2 to max. OrderDesc99 permissible</p> <p>For correct execution of displaying function all OrderDesc(n) Amounts must equal to the Paygate parameter Amount.</p>
TaxTotal	<pre>"amount": {"taxTotal": ...}</pre>	n..10	C	Mandatory, if +Tax is given in description of OrderDesc(n): Total amount of taxes of all single articles in the smallest currency unit (e.g. EUR Cent) = Sum(Tax*Number)
ItemTotal	<pre>"amount": {"itemTotal": ...}</pre>	n..10	C	Mandatory, if +tax is given in description of OrderDesc(n): Gross amount of all single articles in the smallest currency unit (e.g. EUR Cent) = Sum(Amount*Number)
ShAmount	<pre>"amount": {"shippingTotal": ...}</pre>	n..10	C	Shipping costs in the smallest currency unit (e.g. EUR Cent). Can be used only in case ShAmount <= 0 and connection with parameters ItemTotal and TaxTotal.
URLSuccess	<pre>"urls": {"success": "..."} "..."</pre>	ans..256	M	<p>Complete URL which calls up Paygate if payment has been successful. The URL may be called up only via port 443. This URL may not contain parameters: In order to exchange values between Paygate and shop, please use the parameter UserData.</p> <p>i Common notes:</p> <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate However, fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful.
URLFailure	<pre>"urls": {"failure": "..."} "..."</pre>	ans..256	M	<p>Complete URL which calls up Paygate if payment has been unsuccessful. The URL may be called up only via port 443. This URL may not contain parameters: In order to exchange values between Paygate and shop, please use the parameter UserData.</p> <p>i Common notes:</p> <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate However, fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess/URLNotify. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful.
Response	---	a7	O	Status response sent by Paygate to URLSuccess and URLFailure , should be encrypted. For this purpose, transmit Response=encrypt parameter.
URLNotify	<pre>"urls": {"notify": "..."} "..."</pre>	ans..256	M	<p>Complete URL which Paygate calls up in order to notify the shop about the payment result. The URL may be called up only via port 443. It may not contain parameters: Use the UserData parameter instead.</p> <p>i Common notes:</p> <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate However, fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess/URLNotify. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful.
UserData	<pre>"metadata [userData]": "..."</pre>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.

ReqId	"requestid": "..."	ans..32	O	<p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>
Account	"payment": { "paypal": { "accountid": "..."} }	ans..128	O	For managing multiple PayPal accounts, Merchant account: ID or e-Mail address for which the request should be submitted to PayPal
Language	"language": "..."	an2	O	<p>Language: AU, DE, FR, IT, GB, ES, US; default DE</p> <p>If you would like to control the language for the customer on the PayPal login page, please note the sequence of checks at PayPal and how to influence the language accordingly.</p> <ol style="list-style-type: none"> 1. The user cookie is primary with PayPal. If this is set it overwrites everything (if the browser language is German, then this always has priority). 2. The parameter Localcode – parameter Language on Paygate – with a 5 digit ISO code (fr_FR). Please see PayPal documentation: https://developer.paypal.com/reference/locale-codes/. 3. The parameter ShipToCountry from the delivery address (if a delivery address is transferred) 4. The parameter Localcode – parameter Language on Paygate – with a 2 digit ISO code (FR) 5. The country code of the PayPal account. Please note, this takes place when the customer has logged into his PayPal account. At this point, the language can no longer be actively controlled.
FirstName	"billing": { "consumer": { "firstName": "..."} }	ans..50	OC	(obligatory for USA and Canada): Either the first name only or first and second name if a company name is used as a delivery address.
LastName	"billing": { "consumer": { "lastName": "..."} }	ans..50	OC	(obligatory for USA and Canada): Surname or name of the company of the delivery address
AddressStreet	"billing": { "addressInfo": { "addressLine1": { "street": "..."} } } }	ans..100	OC	(obligatory for USA and Canada): Street in the delivery address
AddressStreet2	"billing": { "addressInfo": { "addressLine2": { "street": "..."} } } }	ans..100	O	2. Street name in the delivery address that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .
AddressCity	"billing": { "addressInfo": { "city": "..."} } }	ans..40	OC	(obligatory for USA and Canada): Town/city in the delivery address
AddressState	"billing": { "addressInfo": { "state": "..."} } }	ans..40	OC	(obligatory for USA and Canada): Federal state of the delivery address. The town submitted in AddrCity must be located in the given federal state, otherwise PayPal refused this payment. For possible values please refer to the PayPal-API-reference documentation.
AddressZip	"billing": { "addressInfo": { "postalCode": "..."} } }	ans..20	OC	(obligatory for USA and Canada): Postcode in the delivery address
AddressCountryCode	"billing": { "addressInfo": { "country": { "A2": "..."} } } }	an2	O	Country code of the delivery country
Phone	"billing": { "contactInfo": { "phone": "..."} } }	n..20	O	Telephone number
NoShipping		n1	O	<p>Handover NoShipping=1 prevents the delivery address registered with Paypal from being displayed.</p> <p>Computop Paygate also offers the option to permanently suppress the delivery address for you on your MID. Please note that the delivery address should only be suppressed in the case of digital goods, as the seller protection is also linked to this. Please contact the Computop Helpdesk for this.</p>
RiskEvaluation		ans..2048	O	<p>Array of key-value pair (base64-encoded). List of keys has to be agreed with PayPal (can be different for different merchants) before usage of parameter RiskEvaluation.</p> <p>Example:</p> <pre>{ "additional_data": [{ "key": "sender_first_name", "value": "John" }, { "key": "sender_last_name", "value": "Doe" }] }</pre>

PaymentUnit(n)		ans..2048	O	<p>In case of Multi-Seller Payment (Marketplace functionality) each PaymentUnit(n) is related to a separate Seller (merchant within the Marketplace) and contains JSON object (base64-encoded) with the following format.</p> <p>Example:</p> <pre>{ merchantemailaddress: "merchant@example.com", merchantid: "XVRKM94GQDXB2", amount: "11000", itemtotal: "8000", taxtotal: "2000", shippingamount: "1000", invoiceid: "xxxxx", orderdescription: "yyyyy", orderitems: [{ name: "zzzzz", quantity: "1", unitamount: "3000", tax: "1000", description: "xxxx", category: "PHYSICAL_GOODS" }, { name: "xxxxx", quantity: "2", unitamount: "2500", tax: "500", description: "yyyyy", category: "DIGITAL_GOODS" }] }</pre> <ul style="list-style-type: none"> Where MerchantID is PayPal PayerID of the merchant. InvoiceID must be unique per MerchantID. Merchant cannot use the same InvoiceID twice. Valid values for Category are DIGITAL_GOODS, PHYSICAL_GOODS and DONATION. In scope of one PayPal transaction it is allowed to use 1) DIGITAL_GOODS and/or PHYSICAL_GOODS; 2) DONATION. DONATION cannot be combined with DIGITAL_GOODS or PHYSICAL_GOODS. ItemTotal is the summary of UnitAmount * Quantity of all Order Items related to this merchant. TaxTotal is the summary of Tax of all Order Items related to this merchant. Amount is the summary of ItemTotal, TaxTotal and ShippingAmount of this merchant.
mode		an8	O	<p>If mode="redirect" is sent, it means that the merchant does not use PayPal Smart Button and Paygate should redirect the customer to PayPal.</p> <p>if mode is not sent (or sent with any other value except "redirect"), it means that the merchant uses PayPal Smart Button and Paygate will not redirect the customer to PayPal (redirection will be handled by PayPal Smart Button).</p> <p> Common notes:</p> <ul style="list-style-type: none"> We recommend to use the PayPal Smart Button for additional fraud protection and improved user experience

Key	REST	Format	CND	Description	Beschreibung
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	REST	Format	CND	Description	Beschreibung
refnr	"referenceNumber": "..."	ns..30	O	Merchant's unique reference number	Eindeutige Referenznummer des Händlers

Key	REST	Format	CND	Description	Beschreibung
Amount	"amount": { "value": ... }	n..10	M	<p>Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk, if you want to capture amounts <100 (smallest currency unit).</p> <p>If OrderDesc(n) is used, there must be valid: Amount=ItemTotal+TaxTotal+SHAmount.</p>	<p>Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk, wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.</p> <p>Falls OrderDesc(n) verwendet wird, muss gelten: Amount=ItemTotal+TaxTotal+SHAmount</p>

Key	REST	Format	CND	Description	Beschreibung
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Currency	"amount": { "currency": "..."} }	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .
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Key	REST	Format	CND	Description	Beschreibung
MAC	---	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify) 	Hash Message Authentication Code (HMAC) mit SHA-256-Algorithmus. Details finden Sie hier: <ul style="list-style-type: none"> HMAC-Authentisierung (Anfrage) HMAC-Authentisierung (Notify)

Key	REST	Format	CND	Description	Beschreibung
Capture	"capture": { "auto": "Yes"} "capture": { "manual": "Yes"} }	a..6	O	Auto or Manual : determines whether the requested amount is settled immediately or at a later stage. Important Note: Please contact Computop Helpdesk for Manual, to discuss different possibilities of usage.	Auto oder Manual : bestimmt, ob der angeforderte Betrag sofort oder später abgerechnet wird. Wichtiger Hinweis: Bitte wenden Sie sich an den Computop Helpdesk für Manual, um verschiedene Möglichkeiten der Nutzung zu besprechen.
TxType	"payment": { "card": { "transactionType": "Order" }} "payment": { "card": { "transactionType": "Auth" }} "payment": { "card": { "transactionType": "BAID" }} }	ans..5	C	Obligatory for Capture=Manual: Transaction type with possible values Order or Auth . For initial Billing Agreement transaction (Billing Agreement creation) TxType= BAID . In case TxType= BAID , all parameters except the following are optional. RefNr MUST be unique for each Billing Agreement creation transaction. <ul style="list-style-type: none"> MerchantID TransID RefNr Amount Currency OrderDesc TxType URLSuccess URLFailure URLNotify MAC 	Pflicht bei Capture=Manual: Transaktionstyp mit den möglichen Werten Order oder Auth . Für die erste Billing Agreement transaction TxType= BAID . Im Fall TxType= BAID sind alle Parameter außer den folgenden optional. RefNr MUSS für jede Transaktion zur Erstellung einer Billing Agreement eindeutig sein. <ul style="list-style-type: none"> MerchantID TransID RefNr Amount Currency OrderDesc TxType URLSuccess URLFailure URLNotify MAC
PayPalMethod	"payment": { "paypal": { "method": "..."} }	enum	O	The "shortcut" value selects the changed transaction procedure which takes the customer back to the shop for payment confirmation. You then need to call up the interface paypalcomplete.aspx to complete the sale.	Wert "shortcut" wählt den geänderten Transaktionsablauf, bei dem der Kunde für die Zahlungsbestätigung in den Shop zurückgeleitet wird. Zum Abschließen der Bestellung muss anschließend die Schnittstelle paypalcomplete.aspx aufgerufen werden.
RTF	---	ans1	O	Reserved for future use	Für zukünftige Verwendung reserviert
OrderDesc	"order": { "description": "..."} }	ans..127	M	Description of purchased goods, unit prices etc.	Beschreibung der gekauften Waren, Einzelpreise usw.
OrderDesc(n)	"order": { "items": "..."} }	ans..2048	O	Customers shopping basket in the form: OrderDesc(n)=Name,Amount,Number,Quantity,Description,Tax OrderDesc2 to max. OrderDesc99 permissible For correct execution of displaying function all OrderDesc(n) Amounts must equal to the Paygate parameter Amount .	Warenkorb des Kunden im Format: OrderDesc(n)=Name,Amount,Number,Quantity,Description,Tax OrderDesc2 bis max. OrderDesc99 zulässig Zur korrekten Ausführung der Anzeigefunktion müssen alle OrderDesc(n) Amounts gleich dem Paygate-Parameter Amount sein.
TaxTotal	"amount": { "taxTotal": "..."} }	n..10	C	Mandatory, if +Tax is given in description of OrderDesc(n): Total amount of taxes of all single articles in the smallest currency unit (e.g. EUR Cent) = Sum (Tax*Number)	Pflicht, wenn +Tax in der Beschreibung von OrderDesc(n) angegeben ist: Gesamtbetrag der Steuern aller Einzelartikel in der kleinsten Währungseinheit (z.B. EUR Cent) = Sum(Tax*Number)
ItemTotal	"amount": { "itemTotal": "..."} }	n..10	C	Mandatory, if +tax is given in description of OrderDesc(n): Gross amount of all single articles in the smallest currency unit (e.g. EUR Cent) = Sum(Amount*Number)	Pflicht, wenn +Tax in der Beschreibung von OrderDesc(n) angegeben ist: Bruttobetrag aller Einzelartikel in der kleinsten Währungseinheit (z.B. EUR Cent) = Sum(Amount*Number)
ShAmount	"amount": { "shippingTotal": "..."} }	n..10	C	Shipping costs in the smallest currency unit (e.g. EUR Cent). Can be used only in case ShAmount <= 0 and connection with parameters ItemTotal and TaxTotal.	Lieferkosten in der kleinsten Währungseinheit (z.B. EUR Cent). Kann nur verwendet werden, wenn ShAmount <= 0 und in Verbindung mit den Parametern ItemTotal und TaxTotal.

Key	REST	Format	CND	Description	Beschreibung
URLSuccess	"urls": {"success": "..."}"	ans..256	M	<p>Complete URL which calls up Paygate if payment has been successful. The URL may be called up only via port 443. This URL may not contain parameters: In order to exchange values between Paygate and shop, please use the parameter UserData.</p> <p>Common notes:</p> <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate However, fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful. 	<p>Vollständige URL, die das Paygate aufruft, wenn die Zahlung erfolgreich war. Die URL darf nur über Port 443 aufgerufen werden. Diese URL darf keine Parameter enthalten: Um Parameter durchzureichen nutzen Sie stattdessen den Parameter UserData.</p> <p>Allgemeine Hinweise:</p> <ul style="list-style-type: none"> Wir empfehlen, den Parameter "response=encrypt" zu verwenden, um eine verschlüsselte Antwort von Paygate zu erhalten Betrüger könnten das verschlüsselte DATA-Element kopieren, welches an URLFailure gesendet wurde, und betrügerisch dasselbe DATA an URLSuccess senden. Überprüfen Sie daher unbedingt den "code"-Wert des DATA-Elements. Nur eine Antwort mit "code=00000000" sollte als erfolgreich angesehen werden.

Key	REST	Format	CND	Description	Beschreibung
URLFailure	"urls": {"failure": "..."}"	ans..256	M	<p>Complete URL which calls up Paygate if payment has been unsuccessful. The URL may be called up only via port 443. This URL may not contain parameters: In order to exchange values between Paygate and shop, please use the parameter UserData.</p> <p>Common notes:</p> <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate However, fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess/URLNotify. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful. 	<p>Vollständige URL, die das Paygate aufruft, wenn die Zahlung gescheitert ist. Die URL darf nur über Port 443 aufgerufen werden. Diese URL darf keine Parameter enthalten: Um Parameter durchzureichen nutzen Sie stattdessen den Parameter UserData.</p> <p>Allgemeine Hinweise:</p> <ul style="list-style-type: none"> Wir empfehlen, den Parameter "response=encrypt" zu verwenden, um eine verschlüsselte Antwort von Paygate zu erhalten Betrüger könnten das verschlüsselte DATA-Element kopieren, welches an URLFailure gesendet wurde, und betrügerisch dasselbe DATA an URLSuccess/URLNotify senden. Überprüfen Sie daher unbedingt den "code"-Wert des DATA-Elements. Nur eine Antwort mit "code=00000000" sollte als erfolgreich angesehen werden.

Key	REST	Format	CND	Description	Beschreibung
Response	---	a7	O	Status response sent by Paygate to URLSuccess and URLFailure , should be encrypted. For this purpose, transmit Response=encrypt parameter.	Die Status-Rückmeldung, die das Paygate an URLSuccess und URLFailure sendet, sollte verschlüsselt werden. Dazu übergeben Sie den Parameter Response=encrypt .

Key	REST	Format	CND	Description	Beschreibung
URLNotify	"urls": {"notify": "..."}"	ans..256	M	<p>Complete URL which Paygate calls up in order to notify the shop about the payment result. The URL may be called up only via port 443. It may not contain parameters: Use the UserData parameter instead.</p> <p>Common notes:</p> <ul style="list-style-type: none"> We recommend to use parameter "response=encrypt" to get an encrypted response by Paygate However, fraudster may just copy the encrypted DATA-element which are sent to URLFailure and send the DATA to URLSuccess/URLNotify. Therefore ensure to check the "code"-value which indicates success/failure of the action. Only a result of "code=00000000" should be considered successful. 	<p>Vollständige URL, die das Paygate aufruft, um den Shop zu benachrichtigen. Die URL darf nur über Port 443 aufgerufen werden. Sie darf keine Parameter enthalten: Nutzen Sie stattdessen den Parameter UserData.</p> <p>Allgemeine Hinweise:</p> <ul style="list-style-type: none"> Wir empfehlen, den Parameter "response=encrypt" zu verwenden, um eine verschlüsselte Antwort von Paygate zu erhalten Betrüger könnten das verschlüsselte DATA-Element kopieren, welches an URLFailure gesendet wurde, und betrügerisch dasselbe DATA an URLSuccess/URLNotify senden. Überprüfen Sie daher unbedingt den "code"-Wert des DATA-Elements. Nur eine Antwort mit "code=00000000" sollte als erfolgreich angesehen werden.

Key	REST	Format	CND	Description	Beschreibung
UserData	"metadata [userData]": "..."	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.	Wenn beim Aufruf angegeben, übergibt das Paygate die Parameter mit dem Zahlungsergebnis an den Shop.

Key	REST	Format	CND	Description	Beschreibung
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ReqID	"requestId": "..."	ans..32	O	<p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>	<p>Um Doppelzahlungen (z.B. durch ETM) zu vermeiden, übergeben Sie einen alphanumerischen Wert, der Ihre Transaktion oder Aktion identifiziert und nur einmal vergeben werden darf. Falls die Transaktion oder Aktion mit demselben ReqID erneut eingereicht wird, führt das Computop Paygate keine Zahlung oder weitere Aktion aus, sondern gibt nur den Status der ursprünglichen Transaktion oder Aktion zurück.</p> <p>Bitte beachten Sie, dass das Computop Paygate für die erste initiale Aktion (Authentifizierung/Autorisierung) einen abgeschlossenen Transaktionsstatus haben muss. Dies gilt nicht für 3-D Secure Authentifizierungen, die durch einen Timeout beendet werden. Der Status 3-D Secure Timeout gilt nicht als abgeschlossener Status, bei dem ReqID-Funktionalität am Paygate nicht greift. Einreichungen mit identischer ReqID auf einen offenen Status werden regulär verarbeitet.</p> <p>Hinweis: Bitte beachten Sie, dass eine ReqID nur 12 Monate gültig ist, danach wird sie vom Paygate gelöscht.</p>
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Key	REST	Format	CND	Description	Beschreibung
Account	"payment": { "paypal": { "accountId": "..." } }	ans..128	O	For managing multiple PayPal accounts, Merchant account: ID or e-Mail address for which the request should be submitted to PayPal	Für die Verwaltung mehrerer PayPal-Konten, Händlerkonto: ID oder E-Mail-Adresse, für die die Anfrage an PayPal gesendet werden soll
Language	"language": "..."	an2	O	<p>Language: AU, DE, FR, IT, GB, ES, US; default DE</p> <p>If you would like to control the language for the customer on the PayPal login page, please note the sequence of checks at PayPal and how to influence the language accordingly.</p> <ol style="list-style-type: none"> 1. The user cookie is primary with PayPal. If this is set it overwrites everything (if the browser language is German, then this always has priority). 2. The parameter Localcode – parameter Language on Paygate – with a 5 digit ISO code (fr_FR). Please see PayPal documentation: https://developer.paypal.com/reference/locale-codes/. 3. The parameter ShipToCountry from the delivery address (if a delivery address is transferred) 4. The parameter Localcode – parameter Language on Paygate – with a 2 digit ISO code (FR) 5. The country code of the PayPal account. Please note, this takes place when the customer has logged into his PayPal account. At this point, the language can no longer be actively controlled. 	<p>Sprache: AU, DE, FR, IT, GB, ES, US; Standardwert DE</p> <p>Wenn Sie die Sprache für den Kunden auf der PayPal-Anmeldeseite steuern möchten, beachten Sie bitte den Ablauf der Prüfungen bei PayPal und wie Sie die Sprache entsprechend beeinflussen können.</p> <ol style="list-style-type: none"> 1. Das User-Cookie ist bei PayPal primär. Wenn dieses gesetzt ist, überschreibt es alles (ist die Browser Sprache auf Deutsch, dann hat diese immer Vorrang). 2. Der Parameter localcode – Parameter Language am Paygate – mit einem 5-stelligen ISO-Code (fr_FR). Bitte beachten Sie die PayPal-Dokumentation: https://developer.paypal.com/reference/locale-codes/. 3. Der Parameter ShipToCountry aus der Lieferadresse (sofern eine Lieferadresse übergeben wird) 4. Der Parameter Localcode – Parameter Language am Paygate – mit einem 2-stelligen Ländercode (FR) 5. Der Ländercode des PayPal-Kontos. Bitte beachten Sie, dass dies erfolgt, wenn sich der Kunde an seinem PayPal-Konto angemeldet hat. Zu diesem Zeitpunkt kann die Sprache nicht mehr aktiv gesteuert werden.
FirstName	"billing": { "consumer": { "firstName": "..." } }	ans..50	OC	(obligatory for USA and Canada): Either the first name only or first and second name if a company name is used as a delivery address.	(Pflicht für USA und Kanada): Entweder nur der Vorname oder Vor- und Nachname, wenn ein Firmenname als Lieferadresse verwendet wird.
LastName	"billing": { "consumer": { "lastName": "..." } }	ans..50	OC	(obligatory for USA and Canada): Surname or name of the company of the delivery address	(Pflicht für USA und Kanada): Nachname oder Firmenname der Lieferadresse
AddressStreet	"billing": { "addressInfo": { "addressLine1": { "street": "..." } } }	ans..100	OC	(obligatory for USA and Canada): Street in the delivery address	(Pflicht für USA und Kanada): Straßenname in der Lieferadresse
AddressStreet2	"billing": { "addressInfo": { "addressLine2": "..." } }	ans..100	O	2. Street name in the delivery address that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .	2. Straßenname in der Lieferadresse, der weitere Informationen zu Packstation o. ä. enthält. Damit dieser Parameter in der Antwort zurückgeliefert werden kann, muss dieser separat vom Computop Helpdesk aktiviert werden.
AddressCity	"billing": { "addressInfo": { "city": "..." } }	ans..40	OC	(obligatory for USA and Canada): Town/city in the delivery address	(Pflicht für USA und Kanada): Ort in der Lieferadresse
AddressState	"billing": { "addressInfo": { "state": "..." } }	ans..40	OC	(obligatory for USA and Canada): Federal state of the delivery address. The town submitted in AddrCity must be located in the given federal state, otherwise PayPal refused this payment. For possible values please refer to the PayPal-API-reference documentation.	(Pflicht für USA und Kanada): Bundesstaat der Lieferadresse. Der in AddrCity hinterlegte Ort muss im angegebenen Bundesland liegen, ansonsten lehnt PayPal diese Zahlung ab. Mögliche Werte entnehmen Sie bitte der PayPal-API-Referenzdokumentation.
AddressZip	"billing": { "addressInfo": { "postalCode": "..." } }	ans..20	OC	(obligatory for USA and Canada): Postcode in the delivery address	(Pflicht für USA und Kanada): Postleitzahl in der Lieferadresse
AddressCountryCode	"billing": { "addressInfo": { "country": { "A2": "..." } } }	an2	O	Country code of the delivery country	Ländercode in der Lieferadresse
Phone	"billing": { "contactInfo": { "phone": "..." } }	n..20	O	Telephone number	Telefonnummer
NoShipping		n1	O	<p>Handover NoShipping=1 prevents the delivery address registered with PayPal from being displayed.</p> <p>Computop Paygate also offers the option to permanently suppress the delivery address for you on your MID. Please note that the delivery address should only be suppressed in the case of digital goods, as the seller protection is also linked to this. Please contact the Computop Helpdesk for this.</p>	<p>Die Übergabe von NoShipping=1 verhindert, dass die bei PayPal hinterlegte Lieferadresse angezeigt wird.</p> <p>Zusätzlich bietet das Computop Paygate die Variante an, dass wir an Ihrer MID die Unterdrückung der Adresse fest für Sie hinterlegen. Bitte beachten Sie, dass die Lieferadresse nur im Fall digitaler Güter unterdrückt werden sollte, da daran auch der Verkäuferschutz geknüpft ist. Bitte wenden Sie sich dafür an den Computop Helpdesk.</p>

RiskEvaluation		ans..2048	O	<p>Array of key-value pair (base64-encoded). List of keys has to be agreed with PayPal (can be different for different merchants) before usage of parameter RiskEvaluation.</p> <p>Example:</p> <pre>{ "additional_data": [{ "key": "sender_first_name", "value": "John" }, { "key": "sender_last_name", "value": "Doe" }] }</pre>	<p>Array von Key-Value-Paaren (Base64-codiert). Die Liste der Schlüssel muss vor der Verwendung des Parameters RiskEvaluation mit PayPal vereinbart werden (kann bei verschiedenen Händlern unterschiedlich sein).</p> <p>Beispiel:</p> <pre>{ "additional_data": [{ "key": "sender_first_name", "value": "John" }, { "key": "sender_last_name", "value": "Doe" }] }</pre>
PaymentUnit(n)		ans..2048	O	<p>In case of Multi-Seller Payment (Marketplace functionality) each PaymentUnit(n) is related to a separate Seller (merchant within the Marketplace) and contains JSON object (base64-encoded) with the following format.</p> <p>Example:</p> <pre>{ merchantemailaddress: "merchant@example.com", merchantid: "XVRKM94GQDXB2", amount: "11000", itemtotal: "8000", taxtotal: "2000", shippingamount: "1000", invoiceid: "xxxxx", orderdescription: "yyyyy", orderitems: [{ name: "zzzzz", quantity: "1", unitamount: "3000", tax: "1000", description: "xxxx", category: "PHYSICAL_GOODS" }, { name: "xxxxx", quantity: "2", unitamount: "2500", tax: "500", description: "yyyyy", category: "DIGITAL_GOODS" }] }</pre> <ul style="list-style-type: none"> Where MerchantID is PayPal PayerID of the merchant. InvoiceID must be unique per MerchantID. Merchant cannot use the same InvoiceID twice. Valid values for Category are DIGITAL_GOODS, PHYSICAL_GOODS and DONATION. In scope of one PayPal transaction it is allowed to use 1) DIGITAL_GOODS and/or PHYSICAL_GOODS; 2) DONATION. DONATION cannot be combined with DIGITAL_GOODS or PHYSICAL_GOODS. ItemTotal is the summary of UnitAmount * Quantity of all Order Items related to this merchant. TaxTotal is the summary of Tax of all Order Items related to this merchant. Amount is the summary of ItemTotal, TaxTotal and ShippingAmount of this merchant. 	<p>Bei einer Multi-Seller-Zahlung (Marktplatzfunktionalität) bezieht sich jede PaymentUnit(n) auf einen separaten Verkäufer (Händler innerhalb des Marktplatzes) und enthält ein JSON-Objekt (Base64-codiert) mit dem folgenden Format.</p> <p>Beispiel:</p> <pre>{ merchantemailaddress: "merchant@example.com", merchantid: "XVRKM94GQDXB2", amount: "11000", itemtotal: "8000", taxtotal: "2000", shippingamount: "1000", invoiceid: "xxxxx", orderdescription: "yyyyy", orderitems: [{ name: "zzzzz", quantity: "1", unitamount: "3000", tax: "1000", description: "xxxx", category: "PHYSICAL_GOODS" }, { name: "xxxxx", quantity: "2", unitamount: "2500", tax: "500", description: "yyyyy", category: "DIGITAL_GOODS" }] }</pre> <ul style="list-style-type: none"> Dabei ist MerchantID die PayPal PayerID des Händlers. InvoiceID muss pro MerchantID eindeutig sein. Der Händler darf dieselbe InvoiceID nicht zweimal verwenden. Gültige Werte für die Category sind DIGITAL_GOODS, PHYSICAL_GOODS und DONATION. Für eine PayPal-Transaktion ist die Verwendung von 1) DIGITAL_GOODS und/oder PHYSICAL_GOODS; 2) DONATION. DONATION kann nicht mit DIGITAL_GOODS oder PHYSICAL_GOODS kombiniert werden. ItemTotal ist die Zusammenfassung von UnitAmount * Quantity aller Bestellartikel, die sich auf diesen Händler beziehen. TaxTotal ist die Zusammenfassung von Tax aller Bestellartikel dieses Händlers. Amount ist die Zusammenfassung von ItemTotal, TaxTotal und ShippingAmount dieses Händlers.

mode		an8	O	<p>If mode="redirect" is sent, it means that the merchant does not use PayPal Smart Button and Paygate should redirect the customer to PayPal.</p> <p>if mode is not sent (or sent with any other value except "redirect"), it means that the merchant uses PayPal Smart Button and Paygate will not redirect the customer to PayPal (redirection will be handled by PayPal Smart Button).</p> <p>Common notes:</p> <ul style="list-style-type: none"> We recommend to use the PayPal Smart Button for additional fraud protection and improved user experience 	<p>Wenn mode="redirect" gesendet wird, bedeutet dies, dass der Händler den PayPal Smart Button nicht verwendet und Paygate den Kunden zu PayPal weiterleiten sollte.</p> <p>Wenn mode nicht gesendet wird (oder mit einem anderen Wert außer „redirect“ gesendet wird), bedeutet dies, dass der Händler den PayPal Smart Button verwendet und Paygate den Kunden nicht zu PayPal weiterleitet (die Umleitung wird über den PayPal Smart Button abgewickelt).</p> <p>Allgemeine Hinweise:</p> <ul style="list-style-type: none"> Wir empfehlen, die Verwendung des PayPal Smart Button für zusätzlichen Betrugsschutz und ein verbessertes Benutzererlebnis
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Parameters for PayPal payments

In case of using REST API

In case of using REST API you will always receive a link where the merchant has to redirect the consumer to complete the payment.

REST	Format	CND	Description
"paymentId": "..."	an32	M	May be "00000000000000000000000000000000" if not yet set by Computop Paygate
"_Links.self.type": "..."	an..20	M	"application/json"
"_Links.redirect.href": "..."	an..1024	M	Merchant needs to redirect consumer to this URL to complete payment
"_Links.redirect.type": "..."	an..20	M	"text/html"

Merchant can use inquire.aspx

In case of using Key-Value-Pair API

The following table gives the result parameters which Computop Paygate transmits to **URLSuccess** or **URLFailure** and **URLNotify**. If you have specified the **Response=encrypt** parameter, the following parameters are sent **Blowfish encrypted** to your system:

i pls. be prepared to receive additional parameters at any time and do not check the order of parameters

i the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	Format	CND	Description
mid	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment
Status	a..50	M	OK, AUTHORIZE_REQUEST or Timeout (only if Capture=Manual) on the URLSuccess page or FAILED on the URLFailure page. AUTHORIZE_REQUEST – is returned actively only for request parameter "TxType=auth" or "PayPalMethod=shortcut". When using TxType=auth or without TxType the final status is returned directly. Timeout – all open payments with status AUTHORIZE_REQUEST will be closed ~ 3hours later automatically and are reported as Timeout.
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify)
refnr	ns..30	O	Merchant's unique reference number
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.
CodeExt	n..10	O	Error code from PayPal if agreed with Computop Helpdesk
Name	ans..50	M	First name and surname joined

FirstNa me	ans..50	M	First name of payer (PayerInfo, may differ from the account name)
LastNa me	ans..50	M	Last name of payer (PayerInfo, may differ from the account name)
E-Mail	ans..100	M	Email address of the purchaser
AddrStr eet	ans..100	O	Street in the delivery address
AddrStr eet2	ans..100	O	2. Street name in the delivery address that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .
AddrCity	ans..40	O	Town/city in the delivery address
AddrSt ate	ans..40	O	Federal State in the delivery address
AddrZip	ans..20	O	Postcode in the delivery address
AddrCo untryC ode	an2	O	Country code of the delivery country
Phone	n..20	O	Telephone number
BillingA greeme ntID	ans..19	O	Billing Agreement ID which can be used for subsequent transactions, based on this Billing Agreement.
BillingN ame	ans..32	O	First name and surname joined
BillingA ddrStre et	ans..100	O	Street name of the invoicing address lodged with PayPal
BillingA ddrStre et2	ans..100	O	2. Street name of the invoicing address lodged with PayPal that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .
BillingA ddrCity	ans..40	O	Town/city name of the invoicing address saved with PayPal
BillingA ddrState	ans..40	O	Federal state of the invoicing address saved with PayPal
BillingA ddrZIP	ans..20	O	Postcode of the invoicing address saved with PayPal
BillingA ddrCou ntryCo de	an2	O	Country code of the billing address
payerS tatus	an..10	O	Status of buyer with possible values "verified" or "unverified"
InfoText	ans..255	M	Message to the merchant
PayerID	ans..13	O	(if response is activated): Unique identification number of customer account at PayPal
GrossA mount	an..9	O	Final amount charged, including any shipping and taxes from your Merchant profile
FeeAm ount	an..9	O	PayPal fee amount charged for the transaction
SettleA mount	an..9	O	Amount deposited in your PayPal account after a currency conversion
TaxAm ount	an..9	O	Tax charged on the transaction
Exchan geRate	an..17	O	Exchange rate if a currency conversion occurred. Relevant only if you are billing in their non-primary currency. If the buyer chooses to pay with a currency other than the non-primary currency, the conversion occurs in the buyer's account.
mc_fee	an..9	C	Only in case of separate Notify from PayPal: Transaction fee associated with the payment. mc_gross minus mc_fee equals the amount deposited into the receiver_email account. Equivalent to payment_fee for USD payments. If this amount is negative, it signifies a refund or reversal, and either of those payment statuses can be for the full or partial amount of the original transaction fee.
mc_gro ss	an..9	C	Only in case of separate Notify from PayPal: Full amount of the customer's payment before transaction fee is subtracted. Equivalent to payment_gross for USD payments. If this amount is negative, it signifies a refund or reversal, and either of those payment statuses can be for the full or partial amount of the original transaction.

OrderStatus(n)	ans..255	O	<p>In case of Multi-Seller Payment (Marketplace functionality), each OrderStatus(n) contains Status and Capture ID (to be used in case of Credit) for corresponding OrderDesc(n) sent in request. JSON object (base64-encoded) with the following format.</p> <p>Examples:</p> <pre>{ "status": "COMPLETED", "id": "3C679366HH908993F1", "invoiceid": "PU1_20230812" }</pre> <pre>{ "status": "FAILED", "id": "na", "invoiceid": "" }</pre> <p>Status has been analysed, because a customer could not have enough money for all merchants. In this case PayPal will approve only some of OrderDesc(n) (only for some merchants).</p>
TID	ans..17	O	<p>In case of SALE, the parameter contains unique PayPal-generated Capture ID.</p> <p>In case of AUTH, the parameter contains unique PayPal-generated Authorization ID.</p>
TransactionID	ans..17	O	The parameter contains unique PayPal-generated Order ID

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	Format	CND	Description	Beschreibung
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
Status	a..50	M	<p>OK, AUTHORIZE_REQUEST or Timeout (only if Capture=Manual) on the URLSuccess page or FAILED on the URLFailure page.</p> <p>AUTHORIZE_REQUEST – is returned actively only for request parameter "TxType=auth" or "PayPalMethod=shortcut". When using TxType=auth or without TxType the final status is returned directly.</p> <p>Timeout – all open payments with status AUTHORIZE_REQUEST will be closed ~ 3hours later automatically and are reported as Timeout.</p>	<p>OK, AUTHORIZE_REQUEST oder Timeout (nur bei Capture=Manual) auf der URLSuccess-Seite oder FAILED auf der URLFailure-Seite.</p> <p>AUTHORIZE_REQUEST – wird nur bei Anfrageparameter „TxType=auth“ oder „PayPalMethod=shortcut“ aktiv zurückgegeben. Bei Verwendung von TxType=auth oder ohne TxType wird direkt der finale Status zurückgegeben.</p> <p>Timeout – alle offenen Zahlungen mit Status AUTHORIZE_REQUEST werden etwa 3 Stunden später automatisch geschlossen und als Timeout gemeldet</p>

Key	Format	CND	Description	Beschreibung
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	Format	CND	Description	Beschreibung
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	Format	CND	Description	Beschreibung
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MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify) 	Hash Message Authentication Code (HMAC) mit SHA-256-Algorithmus. Details finden Sie hier: <ul style="list-style-type: none"> HMAC-Authentisierung (Anfrage) HMAC-Authentisierung (Notify)
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Key	Format	CND	Description	Beschreibung
refnr	ns..30	O	Merchant's unique reference number	Eindeutige Referenznummer des Händlers

Key	Format	CND	Description	Beschreibung
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.	Wenn beim Aufruf angegeben, übergibt das Paygate die Parameter mit dem Zahlungsergebnis an den Shop.

Key	Format	CND	Description	Beschreibung
CodeExt	n..10	O	Error code from PayPal if agreed with Computop Helpdesk	Fehlercode von PayPal, wenn mit Computop Helpdesk abgesprochen
Name	ans..50	M	First name and surname joined	Vorname und Nachname zusammen
FirstName	ans..50	M	First name of payer (PayerInfo, may differ from the account name)	Vorname des Zahlers (PayerInfo, kann vom Kontonamen abweichen)
LastName	ans..50	M	Last name of payer (PayerInfo, may differ from the account name)	Nachname des Zahlers (PayerInfo, kann vom Kontonamen abweichen)
E-Mail	ans..100	M	Email address of the purchaser	E-Mail-Adresse des Käufers
AddrStreet	ans..100	O	Street in the delivery address	Straßenname in der Lieferadresse
AddrStreet2	ans..100	O	2. Street name in the delivery address that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .	2. Straßenname in der Lieferadresse, der weitere Informationen zu Packstation o.ä. enthält. Damit dieser Parameter in der Antwort zurückgeliefert werden kann, muss dieser separat vom Computop Helpdesk aktiviert werden.
AddrCity	ans..40	O	Town/city in the delivery address	Ort in der Lieferadresse
AddrState	ans..40	O	Federal State in the delivery address	Bundesstaat in der Lieferadresse
AddrZip	ans..20	O	Postcode in the delivery address	Postleitzahl in der Lieferadresse
AddrCountryCode	an2	O	Country code of the delivery country	Ländercode in der Lieferadresse
Phone	n..20	O	Telephone number	Telefonnummer
BillingAgreementID	ans..19	O	Billing Agreement ID which can be used for subsequent transactions, based on this Billing Agreement.	Billing Agreement, die für nachfolgende Transaktionen basierend auf dieser Billing Agreement verwendet werden kann.
BillingName	ans..32	O	First name and surname joined	Vorname und Nachname zusammen
BillingAddrStreet	ans..100	O	Street name of the invoicing address lodged with PayPal	Straßenname der bei PayPal hinterlegten Rechnungsadresse
BillingAddrStreet2	ans..100	O	2. Street name of the invoicing address lodged with PayPal that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .	2. Straßenname der bei PayPal hinterlegten Rechnungsadresse, der weitere Informationen zu Packstation o.ä. enthält. Damit dieser Parameter in der Antwort zurückgeliefert werden kann, muss dieser separat vom Computop Helpdesk aktiviert werden.
BillingAddrCity	ans..40	O	Town/city name of the invoicing address saved with PayPal	Ortsname der bei PayPal hinterlegten Rechnungsadresse
BillingAddrState	ans..40	O	Federal state of the invoicing address saved with PayPal	Bundesstaat der bei PayPal hinterlegten Rechnungsadresse
BillingAddrZIP	ans..20	O	Postcode of the invoicing address saved with PayPal	Postleitzahl der bei PayPal hinterlegten Rechnungsadresse
BillingAddrCountryCode	an2	O	Country code of the billing address	Ländercode in der Rechnungsadresse
payerStatus	an..10	O	Status of buyer with possible values "verified" or "unverified"	Status des Käufers mit den möglichen Werten "verified" oder "unverified"
InfoText	ans..255	M	Message to the merchant	Nachricht an den Händler
PayerID	ans..13	O	(if response is activated): Unique identification number of customer account at PayPal	(falls Antwort aktiviert ist): Eindeutige Identifikationsnummer des Kundenkontos bei PayPal
GrossAmount	an..9	O	Final amount charged, including any shipping and taxes from your Merchant profile	Abgerechneter Endbetrag, einschließlich Versandkosten und Steuern aus Ihrem Händlerprofil
FeeAmount	an..9	O	PayPal fee amount charged for the transaction	Für die Transaktion berechneter Betrag der PayPal-Gebühr

SettleAmount	an..9	O	Amount deposited in your PayPal account after a currency conversion	Auf Ihrem PayPal-Konto nach einer Währungsumrechnung eingezahlter Betrag
TaxAmount	an..9	O	Tax charged on the transaction	Auf die Transaktion erhobene Steuer
ExchangeRate	an..17	O	Exchange rate if a currency conversion occurred. Relevant only if you are billing in their non-primary currency. If the buyer chooses to pay with a currency other than the non-primary currency, the conversion occurs in the buyer's account.	Wechselkurs, falls eine Währungsumrechnung stattgefunden hat. Nur relevant, wenn Sie in ihrer Nicht-Hauptwährung abrechnen. Wenn der Käufer mit einer anderen Währung als der Nicht-Primärwährung bezahlt, erfolgt die Umrechnung im Konto des Käufers.
mc_fee	an..9	C	Only in case of separate Notify from PayPal: Transaction fee associated with the payment. mc_gross minus mc_fee equals the amount deposited into the receiver_email account. Equivalent to payment_fee for USD payments. If this amount is negative, it signifies a refund or reversal, and either of those payment statuses can be for the full or partial amount of the original transaction fee.	Nur bei einem separaten Notify von PayPal: Transaktionsgebühr im Zusammenhang mit der Zahlung. mc_gross minus mc_fee entspricht dem Betrag, der auf das Konto receiver_email eingezahlt wurde. Entspricht Payment_fee für USD-Zahlungen. Wenn dieser Betrag negativ ist, bedeutet dies eine Rückerstattung oder Stornierung, und jeder dieser Zahlungsstatus kann für den vollen oder einen Teilbetrag der ursprünglichen Transaktionsgebühr gelten.
mc_gross	an..9	C	Only in case of separate Notify from PayPal: Full amount of the customer's payment before transaction fee is subtracted. Equivalent to payment_gross for USD payments. If this amount is negative, it signifies a refund or reversal, and either of those payment statuses can be for the full or partial amount of the original transaction.	Nur bei einem separaten Notify von PayPal: Gesamtbetrag der Zahlung des Kunden vor Abzug der Transaktionsgebühr. Äquivalent zu payment_gross für USD-Zahlungen. Wenn dieser Betrag negativ ist, bedeutet dies eine Rückerstattung oder Stornierung, und jeder dieser Zahlungsstatus kann für den gesamten oder einen Teilbetrag der ursprünglichen Transaktion gelten.
OrderStatus(n)	ans..255	O	<p>In case of Multi-Seller Payment (Marketplace functionality), each OrderStatus(n) contains Status and Capture ID (to be used in case of Credit) for corresponding OrderDesc(n) sent in request. JSON object (base64-encoded) with the following format.</p> <p>Examples:</p> <pre>{ "status": "COMPLETED", "id": "3C679366HH908993F1", "invoiceid": "PU1_20230812" }</pre> <pre>{ "status": "FAILED", "id": "na", "invoiceid": "" }</pre> <p>Status has been analysed, because a customer could not have enough money for all merchants. In this case PayPal will approve only some of OrderDesc(n) (only for some merchants).</p>	<p>Bei einer Multi-Seller-Zahlung (Funktionalität Marketplace) enthält jeder OrderStatus(n) den Status und die Capture-ID (bei einer Gutschrift zu verwenden) für die entsprechenden in der Anfrage gesendeten OrderDesc(n). JS ON-Objekt (Base64-codiert) mit dem folgenden Format.</p> <p>Beispiele:</p> <pre>{ "status": "COMPLETED", "id": "3C679366HH908993F1", "invoiceid": "PU1_20230812" }</pre> <pre>{ "status": "FAILED", "id": "na", "invoiceid": "" }</pre> <p>Der Status wurde analysiert, da ein Kunde nicht genug Geld für alle Händler haben könnte. In diesem Fall genehmigt PayPal nur einige OrderDesc(n) (nur für einige Händler).</p>
TID	ans..17	O	<p>In case of SALE, the parameter contains unique PayPal-generated Capture ID.</p> <p>In case of AUTH, the parameter contains unique PayPal-generated Authorization ID.</p>	<p>Bei SALE enthält der Parameter eine eindeutige, von PayPal generierte Capture-ID.</p> <p>Bei AUTH enthält der Parameter eine eindeutige, von PayPal generierte Autorisierungs-ID.</p>
TransactionID	ans..17	O	The parameter contains unique PayPal-generated Order ID	The parameter contains unique PayPal-generated Order ID

Return parameters for URLSuccess, URLFailure and URLNotify with PayPal

Notice: The address parameters are always transmitted to the shop but are empty if no address data has been exchanged.

Calling the interface for method "shortcut"

The PayPal "shortcut" method enables a changed transaction procedure which takes the customer back to the shop for payment confirmation. To complete this PayPal payment in the next step, use the following URL and parameters:

<https://www.computop-paygate.com/paypalComplete.aspx>

Notice: For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

Key	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment

Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .
refnr	ns..30	O	Merchant's unique reference number
PayID	an32	M	ID assigned by Paygate for the payment. Enter the PayID from the response from paypal.aspx received in the previous transaction procedure.
			i Address information. When you transfer these values you can also change an address. ⚠ Notice: If transferring FirstName, all other values should also be entered. If not transferring FirstName, other address parameters are not taken into account.
FirstNa me	ans..50	C	Mandatory in order to transfer address information Either the first name only or first and second name if a company name is used as a delivery address.
LastNa me	ans..50	C	Obligatory if FirstName is transmitted: Surname or name of the company of the delivery address
AddrStr eet	ans..100	C	Obligatory if FirstName is transmitted: Street in the delivery address
AddrStr eet2	ans..100	C	Obligatory if FirstName is transmitted: 2. Street name in the delivery address that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .
AddrCity	ans..40	C	Obligatory if FirstName is transmitted: Town/city in the delivery address
AddrSta te	ans..40	C	Obligatory if FirstName is transmitted: Federal state of the delivery address. The town submitted in AddrCity must be located in the given federal state, otherwise PayPal refused this payment. For possible values please refer to the PayPal-API-reference documentation.
AddrZip	ans..20	C	Obligatory if FirstName is transmitted: Postcode in the delivery address
AddrCo untryCo de	an2	C	Obligatory if FirstName is transmitted: Country code of the delivery country
Phone	n..20	C	Obligatory if FirstName is transmitted: Telephone number

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
Amou nt	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.

Key	Format	CND	Description	Beschreibung
Curren cy	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .


Key	Format	CND	Description	Beschreibung
refnr	ns..30	O	Merchant's unique reference number	Eindeutige Referenznummer des Händlers


Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for the payment. Enter the PayID from the response from paypal.aspx received in the previous transaction procedure.	Vom Paygate vergebene ID für die Zahlung. Übergeben Sie hier die PayID aus der Antwort von paypal.aspx, die Sie im bisherigen Transaktionsablauf erhalten haben.
			i Address information. When you transfer these values you can also change an address. ⚠ Notice: If transferring FirstName, all other values should also be entered. If not transferring FirstName, other address parameters are not taken into account.	i Adressinformationen. Durch Übergabe dieser Werte ist auch eine Adress-Änderung möglich. ⚠ Hinweis: Wenn FirstName übergeben wird, sollten auch alle anderen Werte übergeben werden. Wenn FirstName nicht übergeben wird, werden andere Adressparameter nicht berücksichtigt.

FirstName	ans..50	C	Mandatory in order to transfer address information Either the first name only or first and second name if a company name is used as a delivery address.	Pflicht, um Adressangaben zu übermitteln: Entweder nur der Vorname oder Vor- und Nachname, falls ein Firmenname als Lieferadresse genutzt wird.
LastName	ans..50	C	Obligatory if FirstName is transmitted: Surname or name of the company of the delivery address	Pflicht, wenn FirstName übergeben wird: Nachname oder Firmenbezeichnung der Lieferadresse
AddressStreet	ans..100	C	Obligatory if FirstName is transmitted: Street in the delivery address	Pflicht, wenn FirstName übergeben wird: Straßenname der Lieferadresse
AddressStreet2	ans..100	C	Obligatory if FirstName is transmitted: 2. Street name in the delivery address that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .	Pflicht, wenn FirstName übergeben wird: 2. Straßenname in der Lieferadresse, der weitere Informationen zu Packstation o.ä. enthält. Damit dieser Parameter in der Antwort zurückgeliefert werden kann, muss dieser separat vom Computop Helpdesk aktiviert werden.
AddressCity	ans..40	C	Obligatory if FirstName is transmitted: Town/city in the delivery address	Pflicht, wenn FirstName übergeben wird: Ortsname der Lieferadresse
AddressState	ans..40	C	Obligatory if FirstName is transmitted: Federal state of the delivery address. The town submitted in AddressCity must be located in the given federal state, otherwise PayPal refused this payment. For possible values please refer to the PayPal-API-reference documentation.	Pflicht, wenn FirstName übergeben wird: Bundesland (Bundesstaat) der Lieferadresse. Die in AddressCity übergebene Stadt muss im angegebenen Bundesstaat liegen, sonst lehnt PayPal die Zahlung ab. Mögliche Werte entnehmen Sie bitte der PayPal-API-Reference Dokumentation.
AddressZip	ans..20	C	Obligatory if FirstName is transmitted: Postcode in the delivery address	Pflicht, wenn FirstName übergeben wird: Postleitzahl der Lieferadresse
AddressCountryCode	an2	C	Obligatory if FirstName is transmitted: Country code of the delivery country	Pflicht, wenn FirstName übergeben wird: Ländercode des Lieferlandes
Phone	n..20	C	Obligatory if FirstName is transmitted: Telephone number	Pflicht, wenn FirstName übergeben wird: Telefonnummer

Parameters for PayPal payments with method "shortcut"

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	Format	CND	Description
mid	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
refnr	ns..30	O	Merchant's unique reference number
CodeExt	n..10	O	Error code from external partner. Needs to be agreed with Computop Helpdesk .

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	Format	CND	Description	Beschreibung
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	Format	CND	Description	Beschreibung
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TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss
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Key	Format	CND	Description	Beschreibung
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	Format	CND	Description	Beschreibung
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	Format	CND	Description	Beschreibung
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	Format	CND	Description	Beschreibung
refnr	ns..30	O	Merchant's unique reference number	Eindeutige Referenznummer des Händlers

Key	Format	CND	Description	Beschreibung
CodeExt	n..10	O	Error code from external partner. Needs to be agreed with Computop Helpdesk .	Fehlercode des externen Partners, wenn mit dem Computop Helpdesk abgesprochen.

Response parameters for PayPal with method "shortcut"

Calling the interface for a separate authorization

For a PayPal payment the ORDER can be separated from the subsequent authorization and the following steps. Separate authorization is only possible after the order (TxType=Order) is completed.

For a separate authorization with PayPal, please use the following URL:

<https://www.computop-paygate.com/Authorize.aspx>

Notice: For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

Key	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment
TxType	ans..5	M	Transaction type Auth
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .
FirstName	ans..50	O	Either the first name only or first and second name if a company name is used as a delivery address
LastName	ans..50	O	Surname or name of the company of the delivery address
AddressStreet	ans..100	O	Street in the delivery address

AddrStreet2	ans..100	O	2. Street name in the delivery address that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .
AddrCity	ans..40	O	Town/city in the delivery address
AddrState	ans..40	O	Federal state of the delivery address. The town submitted in AddrCity must be located in the given federal state, otherwise PayPal refused this payment. For possible values please refer to the PayPal-API-reference documentation.
AddrZip	ans..20	O	Postcode in the delivery address
AddrCountryCode	an2	O	Country code of the delivery country
Phone	n..20	O	Telephone number

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
TxType	ans..5	M	Transaction type Auth	Transaktionstyp Auth


Key	Format	CND	Description	Beschreibung
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.


Key	Format	CND	Description	Beschreibung
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .

Key	Format	CND	Description	Beschreibung
FirstName	ans..50	O	Either the first name only or first and second name if a company name is used as a delivery address	Entweder nur der Vorname oder Vor- und Nachname, wenn ein Firmenname als Lieferadresse verwendet wird
LastName	ans..50	O	Surname or name of the company of the delivery address	Nachname oder Firmenname der Lieferadresse
AddrStreet	ans..100	O	Street in the delivery address	Straßenname in der Lieferadresse
AddrStreet2	ans..100	O	2. Street name in the delivery address that contains additional information e.g. packing station or similar. In order to receive this as a response parameter, it needs to be activated separately by the Computop Helpdesk .	2. Straßenname in der Lieferadresse, der weitere Informationen zu Packstation o.ä. enthält. Damit dieser Parameter in der Antwort zurückgeliefert werden kann, muss dieser separat vom Computop Helpdesk aktiviert werden.
AddrCity	ans..40	O	Town/city in the delivery address	Ort in der Lieferadresse
AddrState	ans..40	O	Federal state of the delivery address. The town submitted in AddrCity must be located in the given federal state, otherwise PayPal refused this payment. For possible values please refer to the PayPal-API-reference documentation.	Bundesstaat der Lieferadresse. Der in AddrCity hinterlegte Ort muss im angegebenen Bundesland liegen, ansonsten lehnt PayPal diese Zahlung ab. Mögliche Werte entnehmen Sie bitte der PayPal-API-Referenzdokumentation.
AddrZip	ans..20	O	Postcode in the delivery address	Postleitzahl in der Lieferadresse
AddrCountryCode	an2	O	Country code of the delivery country	Ländercode in der Lieferadresse
Phone	n..20	O	Telephone number	Telefonnummer

Parameters for PayPal authorization

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	Format	CND	Description
mid	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
CodeExt	n..10	O	Error code from PayPal if agreed with Computop Helpdesk

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	Format	CND	Description	Beschreibung
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	Format	CND	Description	Beschreibung
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	Format	CND	Description	Beschreibung
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	Format	CND	Description	Beschreibung
CodeExt	n..10	O	Error code from PayPal if agreed with Computop Helpdesk	Fehlercode von PayPal, wenn mit Computop Helpdesk abgesprochen

Response parameters for PayPal authorization

Capture

To carry out a capture for PayPal via a Server-to-Server connection, please use the following URL:

<https://www.computop-paygate.com/capture.aspx>

Notice: For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

Key	REST	Format	CND	Description
MerchantID	BasicAuth. Username	ans..30	M	MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
MAC	---	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify)
Amount	"amount": { "value": ...}	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	"amount": { "currency": "..."}	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .
RefNr	"referenceNumber": "..."	ans..30	O	Merchant reference number: here a separate reference number, e.g. an invoice number, can be transferred
ReqID	"requestId": "..."	ans..32	O	To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action. Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication/authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly. Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.
TID	"payment": { "paypal": { "generatedCaptureId": "..." }}}	ans..17	O	Unique PayPal-generated Capture ID. The value is required for a refund after several partial captures. Example: A merchant did 3 partial captures for an authorization. For each capture unique PayPal-generated Capture ID is returned in TID (e.g., TID=111, TID=222, TID=333). Then, a refund for second capture should be done. In this case the merchant needs to send TID=222 in refund request.
CompleteType	"payment": { "paypal": { "completeType": "..." }}}	ans..3	O	If <YES> is transferred, the possible open order of PayPal is closed on capture. (Reason: a 115% capture is permissible on the part of PayPal. If a capture reached 100%, Paygate automatically sends a request to close the payment).

Key	REST	Format	CND	Description	Beschreibung
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	REST	Format	CND	Description	Beschreibung
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	REST	Format	CND	Description	Beschreibung
MAC	---	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify) 	Hash Message Authentication Code (HMAC) mit SHA-256-Algorithmus. Details finden Sie hier: <ul style="list-style-type: none"> HMAC-Authentisierung (Anfrage) HMAC-Authentisierung (Notify)

Key	REST	Format	CND	Description	Beschreibung
Amount	"amount": { "value": ...}	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.

Key	REST	Format	CND	Description	Beschreibung
Currency	"amount": { "currency": "..."} }	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .


Key	REST	Format	CND	Description	Beschreibung
RefNr	"referenceNumber": "..."	ans..30	O	Merchant reference number: here a separate reference number, e.g. an invoice number, can be transferred	Referenznummer des Händlers: hier kann eine separate Referenznummer übertragen werden, z.B. eine Rechnungsnummer


Key	REST	Format	CND	Description	Beschreibung
ReqId	"requestId": "..."	ans..32	O	<p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>	<p>Um Doppelzahlungen (z.B. durch ETM) zu vermeiden, übergeben Sie einen alphanumerischen Wert, der Ihre Transaktion oder Aktion identifiziert und nur einmal vergeben werden darf. Falls die Transaktion oder Aktion mit derselben ReqID erneut eingereicht wird, führt das Computop Paygate keine Zahlung oder weitere Aktion aus, sondern gibt nur den Status der ursprünglichen Transaktion oder Aktion zurück.</p> <p>Bitte beachten Sie, dass das Computop Paygate für die erste initiale Aktion (Authentifizierung/Autorisierung) einen abgeschlossenen Transaktionsstatus haben muss. Dies gilt nicht für 3-D Secure Authentifizierungen, die durch einem Timeout beendet werden. Der Status 3-D Secure Timeout gilt nicht als abgeschlossener Status, bei dem ReqID-Funktionalität am Paygate nicht greift. Einreichungen mit identischer ReqID auf einen offenen Status werden regulär verarbeitet.</p> <p>Hinweis: Bitte beachten Sie, dass eine ReqID nur 12 Monate gültig ist, danach wird sie vom Paygate gelöscht.</p>

Key	REST	Format	CND	Description	Beschreibung
TID	"payment": { "paypal": { "generatedCaptureId": "..."} }	ans..17	O	<p>Unique PayPal-generated Capture ID. The value is required for a refund after several partial captures.</p> <p>Example: A merchant did 3 partial captures for an authorization. For each capture unique PayPal-generated Capture ID is returned in TID (e.g., TID=111, TID=222, TID=333). Then, a refund for second capture should be done. In this case the merchant needs to send TID=222 in refund request.</p>	<p>Eindeutige, von PayPal generierte Capture-ID. Der Wert wird für eine Rückerstattung nach mehreren Teilbuchungen benötigt.</p> <p>Beispiel: Ein Händler hat 3 Teilbuchungen für eine Autorisierung durchgeführt. Für jede Buchung wird eine eindeutige, von PayPal generierte Capture-ID in der TID zurückgegeben (z. B. TID=111, TID=222, TID=333). Dann sollte eine Rückerstattung für die zweite Buchung erfolgen. In diesem Fall muss der Händler TID=222 in der Anfrage der Rückerstattung senden.</p>
CompleteType	"payment": { "paypal": { "completeType": "..."} }	ans..3	O	If <YES> is transferred, the possible open order of PayPal is closed on capture. (Reason: a 115% capture is permissible on the part of PayPal. If a capture reached 100%, Paygate automatically sends a request to close the payment).	Wenn <YES> übergeben wird, wird die eventuell offene Bestellung von PayPal bei der Buchung geschlossen. (Grund: Seitens PayPal ist eine 115%ige Buchung zulässig. Wenn eine Buchung 100% erreicht, sendet das Computop Helpdesk automatisch eine Anfrage zum Schließen der Zahlung).

Parameters for PayPal captures

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	REST	Format	CND	Description
mid	"merchantId": "..."	ans..30	M	MerchantID, assigned by Computop
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
XID	"xId": "..."	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate

TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
Status	"status": "OK" "status": "FAILED"	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Description	"description": "..."	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	"code": ...	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
CodeExt	"externalErrorCode": ...	n..10	O	Error code from PayPal if agreed with Computop Helpdesk

Key	REST	Format	CND	Description	Beschreibung
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	REST	Format	CND	Description	Beschreibung
XID	"xid": "..."	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	REST	Format	CND	Description	Beschreibung
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	REST	Format	CND	Description	Beschreibung
Status	"status": "OK" "status": "FAILED"	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	REST	Format	CND	Description	Beschreibung
Description	"description": "..."	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	REST	Format	CND	Description	Beschreibung
Code	"code": ...	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	REST	Format	CND	Description	Beschreibung
CodeExt	"externalErrorCode": ...	n..10	O	Error code from PayPal if agreed with Computop Helpdesk	Fehlercode von PayPal, wenn mit Computop Helpdesk abgesprochen

Result parameters for PayPal captures

Credit with reference

To carry out a credit with a reference transaction for PayPal, please use the following URL:

<https://www.computop-paygate.com/credit.aspx>

Notice: For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

Key	REST	Format	CND	Description
MerchantID	BasicAuth. Username	ans..30	M	MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment to be credited
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
MAC	---	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify)
Amount	"amount": { "value": ...}	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	"amount": { "currency": "..."}	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .
RefNr	"referenceNumber": "..."	ans..30	O	Merchant reference number: here a separate reference number, e.g. an invoice number, can be transferred
ReqId	"requestId": "..."	ans..32	O	To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action. Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication/authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly. Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.
TID	"payment": { "paypal": { "generatedCaptureId": "..." } }	ans..17	O	Unique PayPal-generated Capture ID. The value is required for a refund after several partial captures. Example: A merchant did 3 partial captures for an authorization. For each capture unique PayPal-generated Capture ID is returned in TID in capture response (e.g., TID=111, TID=222, TID=333). Then, a refund for second capture should be done. In this case the merchant needs to send TID=222 in refund request.
Note	"reason": "..."	ans..768	C	Explanatory text for recipient
Subject	"payment": { "paypal": { "massPayEmailSubject": "..." } }	ans..255	C	MassPay: E-Mail subject to recipient Notice: If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.

Key	REST	Format	CND	Description	Beschreibung
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment to be credited	Vom Paygate vergebene ID für die gutzuschreibende Zahlung

Key	REST	Format	CND	Description	Beschreibung
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	REST	Format	CND	Description	Beschreibung
MAC	---	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify) 	Hash Message Authentication Code (HMAC) mit SHA-256-Algorithmus. Details finden Sie hier: <ul style="list-style-type: none"> HMAC-Authentisierung (Anfrage) HMAC-Authentisierung (Notify)

Key	REST	Format	CND	Description	Beschreibung
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Amount	"amount": { "value": "..."} ...	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.
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Key	REST	Format	CND	Description	Beschreibung
Currency	"amount": { "currency": "..."} ...	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .


Key	REST	Format	CND	Description	Beschreibung
RefNr	"referenceNumber": "..."	ans..30	O	Merchant reference number: here a separate reference number, e.g. an invoice number, can be transferred	Referenznummer des Händlers: hier kann eine separate Referenznummer übertragen werden, z.B. eine Rechnungsnummer


Key	REST	Format	CND	Description	Beschreibung
ReqID	"requestId": "..."	ans..32	O	<p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>	<p>Um Doppelzahlungen (z.B. durch ETM) zu vermeiden, übergeben Sie einen alphanumerischen Wert, der Ihre Transaktion oder Aktion identifiziert und nur einmal vergeben werden darf. Falls die Transaktion oder Aktion mit derselben ReqID erneut eingereicht wird, führt das Computop Paygate keine Zahlung oder weitere Aktion aus, sondern gibt nur den Status der ursprünglichen Transaktion oder Aktion zurück.</p> <p>Bitte beachten Sie, dass das Computop Paygate für die erste initiale Aktion (Authentifizierung/Autorisierung) einen abgeschlossenen Transaktionsstatus haben muss. Dies gilt nicht für 3-D Secure Authentifizierungen, die durch einen Timeout beendet werden. Der Status 3-D Secure Timeout gilt nicht als abgeschlossener Status, bei dem ReqID-Funktionalität am Paygate nicht greift. Einreichungen mit identischer ReqID auf einen offenen Status werden regulär verarbeitet.</p> <p>Hinweis: Bitte beachten Sie, dass eine ReqID nur 12 Monate gültig ist, danach wird sie vom Paygate gelöscht.</p>

Key	REST	Format	CND	Description	Beschreibung
TID	"payment": { "paypal": { "generatedCaptureId": "..."} }}	ans..17	O	<p>Unique PayPal-generated Capture ID. The value is required for a refund after several partial captures.</p> <p>Example: A merchant did 3 partial captures for an authorization. For each capture unique PayPal-generated Capture ID is returned in TID in capture response (e.g., TID=111, TID=222, TID=333). Then, a refund for second capture should be done. In this case the merchant needs to send TID=222 in refund request.</p>	<p>Eindeutige, von PayPal generierte Capture-ID. Der Wert wird für eine Rückerstattung nach mehreren Teilbuchungen benötigt.</p> <p>Beispiel: Ein Händler hat 3 Teilbuchungen für eine Autorisierung durchgeführt. Für jede Buchung wird eine eindeutige, von PayPal generierte Capture-ID in der TID zurückgegeben (z. B. TID=111, TID=222, TID=333). Dann sollte eine Rückerstattung für die zweite Buchung erfolgen. In diesem Fall muss der Händler TID=222 in der Anfrage der Rückerstattung senden.</p>
Note	"reason": "..."	ans..768	C	Explanatory text for recipient	Erläuterungstext für den Empfänger
Subject	"payment": { "paypal": { "massPayEmailSubject": "..."} }}	ans..255	C	<p>MassPay: E-Mail subject to recipient</p> <p>Notice: If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.</p>	<p>MassPay: E-Mail-Betreff an den Empfänger</p> <p>Wenn Sie die MassPay-Funktionalität nutzen möchten, wenden Sie sich bitte an den Computop Helpdesk, um diese Funktion für Sie zu aktivieren.</p>

Parameters for PayPal credits with reference transaction

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	REST	Format	CND	Description
mid	"merchantId": "..."	ans..30	M	MerchantID, assigned by Computop

PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
XID	"xId": "..."	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
Status	"status": "OK" "status": "FAILED"	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Description	"description": "..."	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	"code": ...	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
CodeExt	"externalErrorCode": ...	n..10	O	Error code from PayPal if agreed with Computop Helpdesk
FeeRefundAmount	"payment": {"feeAmount": ...}	n..10	O	The refunded amount of the PayPal transaction fees. Required for part credit notes to prior partial captures.
GrossRefundAmount	"payment": {"grossAmount": ...}	n..10	O	Amount refunded to the buyer in this refund transaction. Required for part credit notes to prior partial captures.
NetRefundAmount	"payment": {"netAmount": ...}	n..10	O	Amount deducted from your PayPal account to make this refund. Required for part credit notes to prior partial captures.

Key	REST	Format	CND	Description	Beschreibung
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	REST	Format	CND	Description	Beschreibung
XID	"xId": "..."	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	REST	Format	CND	Description	Beschreibung
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	REST	Format	CND	Description	Beschreibung
Status	"status": "OK" "status": "FAILED"	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	REST	Format	CND	Description	Beschreibung
Description	"description": "..."	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	REST	Format	CND	Description	Beschreibung
Code	"code": ...	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	REST	Format	CND	Description	Beschreibung
CodeExt	"externalErrorCode": ...	n..10	O	Error code from PayPal if agreed with Computop Helpdesk	Fehlercode von PayPal, wenn mit Computop Helpdesk abgesprochen
FeeRefundAmount	"payment": {"feeAmount": ...}	n..10	O	The refunded amount of the PayPal transaction fees. Required for part credit notes to prior partial captures.	Der erstattete Betrag der PayPal-Transaktionsgebühren. Erforderlich für Teilgutschriften zu früheren Teilbuchungen.

GrossRefundAmount	"payment": {"grossAmount": "..."}	n..10	O	Amount refunded to the buyer in this refund transaction. Required for part credit notes to prior partial captures.	Betrag, der dem Käufer bei dieser Gutschrift erstattet wird. Erforderlich für Teilgutschriften zu früheren Teilbuchungen.
NetRefundAmount	"payment": {"netAmount": "..."}	n..10	O	Amount deducted from your PayPal account to make this refund. Required for part credit notes to prior partial captures.	Betrag, der von Ihrem PayPal-Konto abgebogen wird, um diese Gutschrift vorzunehmen. Erforderlich für Teilgutschriften zu früheren Teilbuchungen.

Response parameters for PayPal credits with reference transaction

Credit without reference

In order to initiate a credit without reference transaction for PayPal payment, please use the following URL:

<https://www.computop-paygate.com/paypalcreditEx.aspx>

Notice: For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

Key	REST	Format	CND	Description
MerchantID	BasicAuth. Username	ans..30	M	MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
refnr	"referenceNumber": "..."	ns..30	O	Merchant's unique reference number
Amount	"amount": { "value": ...}	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	"amount": { "currency": "..."}	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .
PayerID		ans..13	O	Unique identification number of customer account at PayPal
ReqId	"requestId": "..."	ans..32	O	<p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication/authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>
Account	"payment": {"paypal": { "accountId": "..."} }	ans..128	O	For managing multiple PayPal accounts, Merchant account: ID or e-Mail address for which the request should be submitted to PayPal
Note	"reason": "..."	ans..768	C	<p>MassPay: Explanatory text for recipient</p> <p>If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.</p>
Subject	"payment": {"paypal": { "massPayEmailSubject": "..."} }	ans..255	C	<p>MassPay: E-Mail subject to recipient</p> <p>If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.</p>
Payer		ans..100	O	<p>MassPay: Email address of the purchaser</p> <p>If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.</p>

Key	REST	Format	CND	Description	Beschreibung
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TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss
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Key	REST	Format	CND	Description	Beschreibung
refnr	"referenceNumber": "..."	ns..30	O	Merchant's unique reference number	Eindeutige Referenznummer des Händlers

Key	REST	Format	CND	Description	Beschreibung
Amount	"amount": { "value": "..."} ...	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.

Key	REST	Format	CND	Description	Beschreibung
Currency	"amount": { "currency": "..."} ...	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .


Key	REST	Format	CND	Description	Beschreibung
PayerID		ans..13	O	Unique identification number of customer account at PayPal	Eindeutige Identifikationsnummer des Kundenkontos bei PayPal


Key	REST	Format	CND	Description	Beschreibung
ReqID	"requestId": "..."	ans..32	O	<p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>	<p>Um Doppelzahlungen (z.B. durch ETM) zu vermeiden, übergeben Sie einen alphanumerischen Wert, der Ihre Transaktion oder Aktion identifiziert und nur einmal vergeben werden darf. Falls die Transaktion oder Aktion mit derselben ReqID erneut eingereicht wird, führt das Computop Paygate keine Zahlung oder weitere Aktion aus, sondern gibt nur den Status der ursprünglichen Transaktion oder Aktion zurück.</p> <p>Bitte beachten Sie, dass das Computop Paygate für die erste initiale Aktion (Authentifizierung/Autorisierung) einen abgeschlossenen Transaktionsstatus haben muss. Dies gilt nicht für 3-D Secure Authentifizierungen, die durch einem Timeout beendet werden. Der Status 3-D Secure Timeout gilt nicht als abgeschlossener Status, bei dem ReqID-Funktionalität am Paygate nicht greift. Einreichungen mit identischer ReqID auf einen offenen Status werden regulär verarbeitet.</p> <p>Hinweis: Bitte beachten Sie, dass eine ReqID nur 12 Monate gültig ist, danach wird sie vom Paygate gelöscht.</p>

Key	REST	Format	CND	Description	Beschreibung
Account	"payment": {"paypal": {"accountId": "..."} }	ans..128	O	For managing multiple PayPal accounts, Merchant account: ID or e-Mail address for which the request should be submitted to PayPal	Für die Verwaltung mehrerer PayPal-Konten, Händlerkonto: ID oder E-Mail-Adresse, für die die Anfrage an PayPal gesendet werden soll
Note	"reason": "..."	ans..768	C	<p>MassPay: Explanatory text for recipient</p> <p>If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.</p>	<p>MassPay: Erläuterungstext für den Empfänger</p> <p>Wenn Sie die MassPay-Funktionalität nutzen möchten, wenden Sie sich bitte an den Computop Helpdesk, um diese Funktion für Sie zu aktivieren.</p>
Subject	"payment": {"paypal": {"massPayEmailSubject": "..."} }	ans..255	C	<p>MassPay: E-Mail subject to recipient</p> <p>If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.</p>	<p>MassPay: E-Mail-Betreff an den Empfänger</p> <p>Wenn Sie die MassPay-Funktionalität nutzen möchten, wenden Sie sich bitte an den Computop Helpdesk, um diese Funktion für Sie zu aktivieren.</p>
Payer		ans..100	O	<p>MassPay: Email address of the purchaser</p> <p>If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.</p>	<p>MassPay: E-Mail-Adresse des Käufers</p> <p>Wenn Sie die MassPay-Funktionalität nutzen möchten, wenden Sie sich bitte an den Computop Helpdesk, um diese Funktion für Sie zu aktivieren.</p>

Parameters for PayPal credits without reference transaction

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	REST	Format	CND	Description
mid	"merchantId": "..."	ans..30	M	MerchantID, assigned by Computop
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
XID	"xId": "..."	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
Status	"status": "OK" "status": "FAILED"	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Description	"description": "..."	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	"code": ...	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
CodeExt	"externalErrorCode": ...	n..10	O	Error code from PayPal if agreed with Computop Helpdesk
FeeRefundAmount	"payment": {"feeAmount": ...}	n..10	O	The refunded amount of the PayPal transaction fees. Required for part credit notes to prior partial captures.
GrossRefundAmount	"payment": {"grossAmount": ...}	n..10	O	Amount refunded to the buyer in this refund transaction. Required for part credit notes to prior partial captures.
NetRefundAmount	"payment": {"netAmount": ...}	n..10	O	Amount deducted from your PayPal account to make this refund. Required for part credit notes to prior partial captures.

Key	REST	Format	CND	Description	Beschreibung
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	REST	Format	CND	Description	Beschreibung
XID	"xId": "..."	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	REST	Format	CND	Description	Beschreibung
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	REST	Format	CND	Description	Beschreibung
Status	"status": "OK" "status": "FAILED"	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	REST	Format	CND	Description	Beschreibung
Description	"description": "..."	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	REST	Format	CND	Description	Beschreibung
Code	"code": ...	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	REST	Format	CND	Description	Beschreibung
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CodeExt	"externalError": ...	n..10	O	Error code from PayPal if agreed with Computop Helpdesk	Fehlercode von PayPal, wenn mit Computop Helpdesk abgesprochen
FeeRefundAmount	"payment": {"feeAmount": ...}	n..10	O	The refunded amount of the PayPal transaction fees. Required for part credit notes to prior partial captures.	Der erstattete Betrag der PayPal-Transaktionsgebühren. Erforderlich für Teilgutschriften zu früheren Teilbuchungen.
GrossRefundAmount	"payment": {"grossAmount": ...}	n..10	O	Amount refunded to the buyer in this refund transaction. Required for part credit notes to prior partial captures.	Betrag, der dem Käufer bei dieser Gutschrift erstattet wird. Erforderlich für Teilgutschriften zu früheren Teilbuchungen.
NetRefundAmount	"payment": {"netAmount": ...}	n..10	O	Amount deducted from your PayPal account to make this refund. Required for part credit notes to prior partial captures.	Betrag, der von Ihrem PayPal-Konto abgezogen wird, um diese Gutschrift vorzunehmen. Erforderlich für Teilgutschriften zu früheren Teilbuchungen.

Response parameters for PayPal credits without reference transaction

Reversal

In order to cancel a transaction with PayPal, please use the following URL:

<https://www.computop-paygate.com/reverse.aspx>

Notice: For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

Key	REST	Format	CND	Description
MerchantID	BasicAuth.UserName	ans..30	M	MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment to be reversed
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
MAC	---	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify)
Amount	"amount": {"value": ...}	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	"amount": {"currency": "..."}"	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .
ReqId	"requestId": "..."	ans..32	O	<p>To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action.</p> <p>Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly.</p> <p>Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.</p>

Key	REST	Format	CND	Description	Beschreibung
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment to be reversed	Vom Paygate vergebene ID für die zu stornierende Zahlung

Key	REST	Format	CND	Description	Beschreibung
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	REST	Format	CND	Description	Beschreibung
MAC	---	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm. Details can be found here: <ul style="list-style-type: none"> HMAC Authentication (Request) HMAC Authentication (Notify) 	Hash Message Authentication Code (HMAC) mit SHA-256-Algorithmus. Details finden Sie hier: <ul style="list-style-type: none"> HMAC-Authentisierung (Anfrage) HMAC-Authentisierung (Notify)


Key	REST	Format	CND	Description	Beschreibung
Amount	"amount": { "value": ...}	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.


Key	REST	Format	CND	Description	Beschreibung
Currency	"amount": { "currency": "..."}"	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .

Key	REST	Format	CND	Description	Beschreibung
ReqID	"requestId": "..."	ans..32	O	To avoid double payments or actions (e.g. by ETM), enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction or action is submitted again with the same ReqID, Computop Paygate will not carry out the payment or new action, but will just return the status of the original transaction or action. Please note that the Computop Paygate must have a finalized transaction status for the first initial action (authentication /authorisation). This does not apply to 3-D Secure authentications that are terminated by a timeout. The 3-D Secure Timeout status does not count as a completed status in which the ReqID functionality on Paygate does not take effect. Submissions with identical ReqID for an open status will be processed regularly. Notice: Please note that a ReqID is only valid for 12 month, then it gets deleted at the Paygate.	Um Doppelzahlungen (z.B. durch ETM) zu vermeiden, übergeben Sie einen alphanumerischen Wert, der Ihre Transaktion oder Aktion identifiziert und nur einmal vergeben werden darf. Falls die Transaktion oder Aktion mit derselben ReqID erneut eingereicht wird, führt das Computop Paygate keine Zahlung oder weitere Aktion aus, sondern gibt nur den Status der ursprünglichen Transaktion oder Aktion zurück. Bitte beachten Sie, dass das Computop Paygate für die erste initiale Aktion (Authentifizierung/Autorisierung) einen abgeschlossenen Transaktionsstatus haben muss. Dies gilt nicht für 3-D Secure Authentifizierungen, die durch einem Timeout beendet werden. Der Status 3-D Secure Timeout gilt nicht als abgeschlossener Status, bei dem ReqID-Funktionalität am Paygate nicht greift. Einreichungen mit identischer ReqID auf einen offenen Status werden regulär verarbeitet. Hinweis: Bitte beachten Sie, dass eine ReqID nur 12 Monate gültig ist, danach wird sie vom Paygate gelöscht.

Parameters for PayPal reversals

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	REST	Format	CND	Description
mid	"merchantId": "..."	ans..30	M	MerchantID, assigned by Computop
PayID	"paymentId": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
XID	"xId": "..."	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment
Status	"status": "OK" "status": "FAILED"	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Description	"description": "..."	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!

Code	"code": ...	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
CodeExt	"externalErrorCo de": ...	n..10	O	Error code from PayPal if agreed with Computop Helpdesk

Key	REST	Format	CND	Description	Beschreibung
PayID	"paymen tid": "..."	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	REST	Format	CND	Description	Beschreibung
XID	"xid": "..."	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	REST	Format	CND	Description	Beschreibung
TransID	"transactionId": "..."	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	REST	Format	CND	Description	Beschreibung
Status	"status": "OK" "status": "FAILED"	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	REST	Format	CND	Description	Beschreibung
Descript ion	"descript ion": "..."	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!

Key	REST	Format	CND	Description	Beschreibung
Code	"code": ...	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	REST	Format	CND	Description	Beschreibung
CodeE xt	"externalErrorCo de": ...	n..10	O	Error code from PayPal if agreed with Computop Helpdesk	Fehlercode von PayPal, wenn mit Computop Helpdesk abgesprochen

Result parameters for PayPal reversals

Reference Transactions

Prerequisites

- Option "Reference Transactions" has to be activated in your PayPal account. Please request the activation at PayPal directly.

Process

The process contains two steps.

Billing Agreement Creation (initial Billing Agreement transaction)

1. Call `PayPalOrders.aspx` with `TxType=BAID` (refer to). In response Paygate returns URL. All parameters except the following are optional in case of `TxType=BAID`.
2. By the URL customer logs in to PayPal account and approves the Billing Agreement.
3. Once the Billing Agreement is approved by the customer, Billing Agreement ID will be send using `URLNotify`.

Billing Agreement Usage

1. Call PayPalRefTrans.aspx (described below, as server-to-server request) with BillingAgreementID="Billing Agreement ID" created on previous step. Customer does not need to login to PayPal account for transaction approval anymore.

Revoking of Billing Agreement

- A customer can revoke Billing Agreement ID in own PayPal account. The merchant can only be informed about the cancellation if additional option IPN "instant payment notification" is activated for merchant account. The activation has to be done by the [Computop Helpdesk](#). Please keep in mind that after IPN activation the merchant will receive notifications for each status change of a PayPal payment.
- If a customer revokes Billing Agreement ID no further subsequent reference transactions (using this Billing Agreement ID) are possible. It is also not possible to reactivate this Billing Agreement ID.

Request

In order to initiate a PayPal subscription payment, please use the following URL:

<https://www.computop-paygate.com/paypalreftrans.aspx>

Notice: For security reasons, Computop Paygate rejects all payment requests with formatting errors. Therefore, please use the correct data type for each parameter.

The following table describes the [encrypted payment request parameters](#):

Key	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop. Additionally this parameter has to be passed in plain language too.
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .
refnr	ns..30	O	Merchant's unique reference number
OrderDesc	ans..30	O	Description of purchased goods, unit prices etc.
BillingAgreementID	an19	M	Identification number of the invoice agreement. When the buyer confirms the invoice agreement it is validated and remains valid until revoked by the buyer.

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.


Key	Format	CND	Description	Beschreibung
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .


Key	Format	CND	Description	Beschreibung
refnr	ns..30	O	Merchant's unique reference number	Eindeutige Referenznummer des Händlers

Key	Format	CND	Description	Beschreibung
OrderDesc	ans..30	O	Description of purchased goods, unit prices etc.	Beschreibung der gekauften Waren, Einzelpreise usw.
BillingAgreementID	an19	M	Identification number of the invoice agreement. When the buyer confirms the invoice agreement it is validated and remains valid until revoked by the buyer.	Identifikationsnummer der Rechnungsvereinbarung. Wenn der Käufer die Rechnungsvereinbarung bestätigt, wird diese validiert und bleibt gültig, bis sie vom Käufer widerrufen wird.

Response

The following table describes the result parameters with which the Computop Paygate responds to your system

 pls. be prepared to receive additional parameters at any time and do not check the order of parameters

 the key (e.g. MerchantId, RefNr) should not be checked case-sensitive

Key	Format	CND	Description
mid	ans..30	M	MerchantID, assigned by Computop
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
CodeExt	n..10	O	Error code from PayPal if agreed with Computop Helpdesk
refnr	ns..30	O	Merchant's unique reference number
OrderID	ans..17	O	Unique PayPal-generated OrderID
TID	ans..17	O	Unique PayPal-generated CaptureID
Name	ans..32	O	First name and surname joined
FirstName	ans..50	O	First name of payer (PayerInfo, may differ from the account name)
LastName	ans..50	O	Last name of payer (PayerInfo, may differ from the account name)
E-Mail	ans..100	O	Email address of the purchaser
BillingName	ans..32	O	First name and surname joined
BillingAddrCountry Code	an2	O	Country code of the billing address
PayerID	ans..13	O	(if response is activated): Unique ID of customer account at PayPal

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files as well as for capture or credit request.	Vom Paygate vergebene ID für die Zahlung; z.B. zur Referenzierung in Batch-Dateien sowie im Capture- oder Credit-Request.

Key	Format	CND	Description	Beschreibung
XID	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate	Vom Paygate vergebene ID für alle einzelnen Transaktionen (Autorisierung, Buchung, Gutschrift), die für eine Zahlung durchgeführt werden

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	Format	CND	Description	Beschreibung
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Description	ans..1024	M	Further details in the event that payment is rejected. Please do not use the Description but the Code parameter for the transaction status analysis!	Nähere Beschreibung bei Ablehnung der Zahlung. Bitte nutzen Sie nicht den Parameter Description , sondern Code für die Auswertung des Transaktionsstatus!
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Key	Format	CND	Description	Beschreibung
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	Format	CND	Description	Beschreibung
CodeExt	n..10	O	Error code from PayPal if agreed with Computop Helpdesk	Fehlercode von PayPal, wenn mit Computop Helpdesk abgesprochen

Key	Format	CND	Description	Beschreibung
refnr	ns..30	O	Merchant's unique reference number	Eindeutige Referenznummer des Händlers

Key	Format	CND	Description	Beschreibung
OrderID	ans..17	O	Unique PayPal-generated OrderID	Eindeutige, von PayPal generierte OrderID
TID	ans..17	O	Unique PayPal-generated CaptureID	Eindeutige, von PayPal generierte CaptureID
Name	ans..32	O	First name and surname joined	Vor- und Nachname zusammengefügt
FirstName	ans..50	O	First name of payer (PayerInfo, may differ from the account name)	Vorname des Zahlers (PayerInfo, kann vom Kontonamen abweichen)
LastName	ans..50	O	Last name of payer (PayerInfo, may differ from the account name)	Nachname des Zahlers (PayerInfo, kann vom Kontonamen abweichen)
E-Mail	ans..100	O	Email address of the purchaser	E-Mail-Adresse des Käufers
BillingName	ans..32	O	First name and surname joined	Vor- und Nachname zusammengefügt
BillingAddrCountryCode	an2	O	Country code of the billing address	Ländercode der Rechnungsadresse
PayerID	ans..13	O	(if response is activated): Unique ID of customer account at PayPal	(bei aktivierter Antwort): Eindeutige ID des Kundenkontos bei PayPal

Result parameters for PayPal Reference Transactions

Batch processing via the interface

Basic information about using Batch files and about their structure can be found in the Batch Manager manual. Within batch processing not all functions are available which are usually available for the online interface.

This section describes the parameters which must be transferred within the data set (**Record**) for executing a PayPal payment and which information can be found within the response file about the payment status.

For Batch calls there must be considered batch versions, from which optional parameters depend. All version designations starting with „2.“ pertain calls for a group of enterprises. That means within a batch file for a particular MerchantID can be transferred transactions for other merchants with a separate Sub-MID.

Following table gives an overview of all batch versions that are possible for a specific action and their specialties:

Action	Version	Description
Authorize	1.0 / 2.0	Standard version without return of parameter Code
	1.4 / 2.4	with TID
Capture	1.0 / 2.0	Standard version without return of parameter Code
	1.x / 2.x	with RefNr (valid for all versions other than 1.0)
	1.4 / 2.4	with TID
Credit	1.0 / 2.0	Standard version without return of parameter Code
	1.x / 2.x	with RefNr (valid for all versions other than 1.0)

	1.4 / 2.4	with TID
CreditEx	1.0 / 2.0	Standard version without return of parameter Code
	1.x / 2.x	with RefNr (valid for all versions other than 1.0)
Reverse	1.0 / 2.0	Standard version without return of parameter Code
	1.4 / 2.4	with TID
ABO/REFTRANS	1.0 / 2.0	ABO - Classic PayPal API REFTRANS - Order V2 PayPal API Standard version without return of parameter Code
	1.x / 2.x	with RefNr (valid for all versions other than 1.0)

Description of the possible batch versions

The structure for a PayPal payment within a Batch file to be submitted is the following:

```
HEAD,<MerchantID>,<Date>,<Version>
PAYPAL,Authorize,<Amount>,<Currency>,<TransID>,<PayID>
PAYPAL,Capture,<Amount>,<Currency>,<TransID>,( <RefNr> , )<PayID>( , <TID> )
PAYPAL,Credit,<Amount>,<Currency>,<TransID>,( <RefNr> , )<PayID>( , <TID> )
PAYPAL,CreditEx,<TransID>,( <RefNr> , )<Amount>,<Currency>,<payer>,<note>
PAYPAL,Reverse,<Amount>,<Currency>,<TransID>,( <RefNr> , )<PayID>( , <TID> )
PAYPAL,REFTRANS,<Amount>,<Currency>,<TransID>,( <RefNr> ) , ( <OrderDesc> ) , ( <Capture> ) , ( <TxType> ) ,
<BillingAgreementId>,<CodeExt>,<PayID>,<Status>,<Code>
FOOT,<CountRecords>,<SumAmount>
```

Example for Master MID function:

```
HEAD,[Master]MerchantID,Date,2.x
Type,Action,[Slave]MID,Amount,Currency,TransID,Data (depends on Action)
FOOT,CountRecords,SumAmount
```

Notice: In Version 1.4 it is also possible to transfer CompleteType together with a Capture action:

PAYPAL,Capture,<Amount>,<Currency>,<TransID>,(<RefNr> ,)<PayID>(, <CompleteType> , <TID>)

The following table describes the individual fields and values used within the data set (record) in the batch file:

Key	Format	CND	Description
Type	a..11	M	HEAD for Header, FOOT for Footer, PAYPAL for PayPal
Action	a..20	M	The parameter Action defines the type of transaction: Authorize Capture Credit CreditEx (credit note without previous capture; please agree this with Computop Helpdesk beforehand) Reverse (cancellation) ABO (subscription, Classic API) REFTRANS (subscription, Order V2 API)
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment
refnr	ns..30	O	Merchant's unique reference number

payer	ans..100	O	MassPay: Email address of the purchaser: In this case you transfer the received email parameter from the Response If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.
note	ans..758	O	Explanatory text for recipient
PayID	an32	M	ID assigned by Paygate for this transaction
TID	ans..17	O	PayPal unique transaction number. Required for a number of authorisations or part captures, part credit notes or part cancellations.
OrderDesc	ans..127	O	Description of purchased goods, unit prices etc.
Capture	a..6	O	Auto or Manual: determines whether the requested amount is settled immediately or at a later stage. For REFTRANS only Auto is possible.
TxType	ans..5	OC	Obligatory for Capture=Manual: Transaction type with possible values Order and Auth
BillingAgreementID	an19	OC	Identification number of the invoice agreement. When the buyer confirms the invoice agreement it is validated and remains valid until revoked by the buyer. Mandatory in case of ABO and REFTRANS.

Key	Format	CND	Description	Beschreibung
Amount	n..10	M	Amount in the smallest currency unit (e.g. EUR Cent). Please contact the Computop Helpdesk , if you want to capture amounts <100 (smallest currency unit).	Betrag in der kleinsten Währungseinheit (z.B. EUR Cent). Bitte wenden Sie sich an den Computop Helpdesk , wenn Sie Beträge < 100 (kleinste Währungseinheit) buchen möchten.

Key	Format	CND	Description	Beschreibung
Currency	a3	M	Currency, three digits DIN / ISO 4217, e.g. EUR, USD, GBP. Please find an overview here: A1 Currency table . Please note the global PayPal supported currencies at https://developer.paypal.com/api/rest/reference/currency-codes/ .	Währung, drei Zeichen DIN / ISO 4217, z.B. EUR, USD, GBP. Hier eine Übersicht: A1 Währungstabelle . Bitte beachten Sie die weltweit von PayPal unterstützten Währungen unter https://developer.paypal.com/api/rest/reference/currency-codes/ .

Key	Format	CND	Description	Beschreibung
TransID	ans..64	M	TransactionID provided by you which should be unique for each payment	Ihre eigene TransaktionsID, die für jede Zahlung eindeutig sein muss

Key	Format	CND	Description	Beschreibung
refnr	ns..30	O	Merchant's unique reference number	Eindeutige Referenznummer des Händlers

Key	Format	CND	Description	Beschreibung
payer	ans..100	O	MassPay: Email address of the purchaser: In this case you transfer the received email parameter from the Response If you want to use the MassPay functionality, please contact the Computop Helpdesk to activate this function for you.	MassPay: E-Mail-Adresse des Käufers: In diesem Fall übergeben Sie den empfangenen E-Mail-Parameter aus der Antwort Wenn Sie die MassPay-Funktionalität nutzen möchten, wenden Sie sich bitte an den Computop Helpdesk , um diese Funktion für Sie zu aktivieren.
note	ans..758	O	Explanatory text for recipient	Erläuterungstext für den Empfänger

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for this transaction	Vom Paygate vergebene ID für diese Transaktion

Key	Format	CND	Description	Beschreibung
TID	ans..17	O	PayPal unique transaction number. Required for a number of authorisations or part captures, part credit notes or part cancellations.	Eindeutige PayPal-Transaktionsnummer. Erforderlich für eine Reihe von Autorisierungen oder Teilbuchungen, Teilgutschriften oder Teilstornierungen.
Order Desc	ans..127	O	Description of purchased goods, unit prices etc.	Beschreibung der gekauften Waren, Einzelpreise usw.
Capture	a..6	O	Auto or Manual: determines whether the requested amount is settled immediately or at a later stage. For REFTRANS only Auto is possible.	Auto oder Manual: legt fest, ob der angeforderte Betrag sofort oder zu einem späteren Zeitpunkt abgerechnet wird. Für REFTRANS ist nur Auto möglich.
TxType	ans..5	OC	Obligatory for Capture=Manual: Transaction type with possible values Order and Auth	Pflicht bei Capture=Manual: Transaktionstyp mit den möglichen Werten Order und Auth

Billing AgreementID	an19	OC	Identification number of the invoice agreement. When the buyer confirms the invoice agreement it is validated and remains valid until revoked by the buyer. Mandatory in case of ABO and REFTRANS.	Identifikationsnummer der Rechnungsvereinbarung. Wenn der Käufer die Rechnungsvereinbarung bestätigt, wird sie gültig und bleibt gültig, bis sie vom Käufer widerrufen wird. Pflicht bei X und Y.
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Description of fields within the record for Batch files

The record area within the response file for Batch transactions looks as follows:

```

HEAD,<MerchantID>,<Date>,<Version>
PAYPAL,Authorize,<Amount>,<Currency>,<TransID>,<PayID>,<Status>,<Code>,<CodeExt>
PAYPAL,Capture,<Amount>,<Currency>,<TransID>,( <RefNr> , )<PayID>,( TID , )<Status>,<Code>,<CodeExt>
PAYPAL,Credit,<Amount>,<Currency>,<TransID>,( <RefNr> , )<PayID>,( TID , )<Status>,<Code>,<CodeExt>
PAYPAL,CreditEx,<TransID>,( <RefNr> , )<Amount>,<Currency>,<payer>,<note>,<Status>,<Code>,<CodeExt>
PAYPAL,Reverse,<Amount>,<Currency>,<TransID>,( <RefNr> , )<PayID>,<Status>,<Code>,<CodeExt>
PAYPAL,REFTRANS,<Amount>,<Currency>,<TransID>,( <RefNr> , )<OrderDesc>,( <Capture> ) , ( <TxType> ) ,
<BillingAgreementId>,<CodeExt>,<PayID>,<Status>,<Code>
FOOT,<CountRecords>,<SumAmount>

```

The following table describes the response parameters which the Batch Manager saves in the Record area for each transaction (standard parameters not explained here, such as <TransID> or <RefNR> and request parameters are returned unchanged and correspond to the call as specified before):

Key	Format	CND	Description
Action	a..20	M	The parameter Action defines the type of transaction like capture or credit.
PayID	an32	M	ID assigned by Paygate for this transaction
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)
CodeExt	n..10	O	Error code from PayPal if agreed with Computop Helpdesk

Key	Format	CND	Description	Beschreibung
PayID	an32	M	ID assigned by Paygate for this transaction	Vom Paygate vergebene ID für diese Transaktion

Key	Format	CND	Description	Beschreibung
Status	a..50	M	OK (URLSuccess) or FAILED (URLFailure)	OK (URLSuccess) oder FAILED (URLFailure)

Key	Format	CND	Description	Beschreibung
Code	an8	M	Error code according to Paygate Response Codes (A4 Error codes)	Fehlercode gemäß Paygate Antwort-Codes (A4 Fehlercodes)

Key	Format	CND	Description	Beschreibung
CodeExt	n..10	O	Error code from PayPal if agreed with Computop Helpdesk	Fehlercode von PayPal, wenn mit Computop Helpdesk abgesprochen

Description of result parameters within the record for Batch files