



Hosted Payment Page

Integration Guide

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Document history

Date	Name	Change
23.04.2018	Peter Posse	List of brands included
11.12.2017	Peter Posse	First version

ABOUT HOSTED PAYMENT PAGE

General information about Hosted Payment Page

The Hosted Payment Page is a checkout that contains only the step of selecting the payment method. It is a HTML form with responsive design that is displayed properly on all devices.

In the case of payments via Hosted Payment Page, the shop redirects its customers to the Paygate HTML form where they select their payment method. After confirming the selection depending on the payment method Paygate forwards the customer to a Paygate HTML form or to a form from an external service provider and notifies the shop after completion about the payment result.

Following table contains the payment methods which you can use via Hosted Payment Page:

Payment type	PayType
Credit card	CC
Direct debit	EDD
PayPal	PayPal
iDEAL	iDEAL
Sofort	Sofort
giropay	giropay
paydirekt	paydirekt
Alipay	Alipay
AstroPay	AstroPayPP
Bancontact	BanconPP
Bank Transfer	BankTranPP
BitPay	BitPayPP
Dragonpay	DragonPP
eNETS	ENETSPP
e-Pay Petronas	EPayPP
Finland Online Bank Transfer	FinOBTPP
Indonesia ATM	IndoATMPP
Multibanco	MultibanPP
My Bank	MyBankPP
MyClear FPX	MyClearPP
Przelewy 24	P24PP
PAYSBUY Cash	PAYSBUYPP
POLi	POLiPP
PostFinance	POSTFINPP
paysafecard	PSCPP
QIWI	QIWIPP
RHB Bank	RHBBankPP
SafetyPay	SafetyPPP
7-Eleven	SevenElePP

Skrill	SkrillPP
Teleingreso	TeleingPP
TrustPay	TrustPayPP

Following table lists all card brands that can be used via the Hosted Payment Page. When submitting the value CC in parameter PayTypes all brands are displayed that are configured for a certain merchant. Selecting specific brands can be done by submitting a string of the desired brand names separated by pipe signs.

Kreditkartenmarke, korrekte Schreibweise für CCBand
AirPlus
AMEX
ARGENCARD
Aura
Bancontact
CABAL
Cartes Bancaires
Maestro
CBN
CENCOSUD
ComfortCard
CUP
Dankort
DINERS
Discover
Elo
Hipercard
JCB
Laser
Maestro
MasterCard
NARANJA
RuPay
SHOPPING
TOTAL
VISA

Process of payment

To make payments via the Hosted Payment Page you send a request to following URL with HTTPS GET or HTTPS POST:

```
https://www.computop-paygate.com/paymentPage.aspx
```

All details required for payment processing are forwarded as parameters. The parameters are encrypted with Blowfish to ensure that neither the customer nor a third party can manipulate the data.

When calling the form Paygate decrypts the parameters and shows the HTML page with the payment methods. The customer selects the payment method and triggers the forwarding by clicking the button "Next".

After the payment has been made Paygate redirects the customers back to a shop page via HTTPS GET (URLSuccess, URLFailure) and transmits the result of the payment as a Blowfish-encrypted parameter string to these URLs. In addition Paygate transmits the result via HTTPS POST to the shop's Notify page (URLNotify). The shop accepts the payment result and decrypts the data in order to inform the customer about the status.

Calling the Hosted Payment Page

Calling the Hosted Payment Page starts with the correct composition of the parameters which consist of a key and a value and which are separated by an equals sign (=):

```
MerchantID=Test
```

All parameters are assembled in a character string and separated by the character &:

```
Amount=100&Currency=EUR&TransID=12345
```

Notice: Since the characters "=" and "&" are used as separating characters, these characters cannot be transmitted as values. All values which you transmit without BlowFish-encryption must be URL-Encoded.

A correct parameter character string for Paygate contains three basic parameters: MerchantID, Len and Data. The parameters MerchantID and Len are unencrypted. Only the Data parameter is Blowfish-encrypted:

```
MerchantID=Test&Len=67&Data=0A67FE96a65d384350F50FF1
```

The Data parameter contains the sensitive payment details such as amount and currency. The encrypted bytes are Hex-encoded and completed to two characters from the left with a zero. Encryption is via Blowfish ECB and is available to you as source-code and components.

The Len parameter is very important for encryption because it contains the length of the unencrypted(!) character string in the Data parameter. Since the data quantity to be encrypted is increased by a multiple of 8 in the case of the Blowfish encryption, the correct length of the character string must be known for decryption. Otherwise accidental characters emerge at the end of the character string.

The parameters are transmitted via HTTPS POST or HTTPS GET. The recommended transmit method is HTTPS POST because the parameter character string in the case of GET is attached to the URL, which is limited to 2048 bytes depending on the browser.

Notice: Please note that the maximum length of a payment request is limited to 5120 characters. If you require longer strings please contact Computop Support.

The following listings show the development of a payment request. The first listing is the unencrypted parameter character string:

```
MerchantID=Test&TransID=100000001&Amount=11&Currency=EUR&URLSuccess=https://www.shop.com/ok.html&URLFailure=https://www.shop.com/failed.html&URLNotify=https://www.shop.com/notify.cgi&OrderDesc=My order
```

Notice: Please note that a value is to be assigned to each parameter. Do not transmit empty parameters, as this can cause the payment to fail.

This character string is encrypted and transmitted as the Data parameter. The HTTPS GET request for the Hosted Payment Page looks like this:

```
<a href=https://www.computop-paygate.com/paymentPage.aspx?MerchantID=Test&Len=162&Data=E98D40FFFD622C5FE7414F73539A1852C2CE7C8B09D34DF217E27FA2E194B9968DE9ABAE3B1F44B5485EFE3EF2597C7395BAD-BAD4340CDFD000DD57129EEFAA0BE904A7E2339DCF9363DA6AC-DBE5EF98E169FC3092B160252A037135421FD0CE092C174A7D1D63517BD45099AC2B682F5E3CD2C942A6F0E741A833C0&Language=en&URLBack=https://www.shop.com/canceled">
```

Notice: Please note that parameters like Language or URLBack are transmitted unencrypted. A table with all possible unencrypted parameters can be found also within this document.

PARAMETERS FOR THE HOSTED PAYMENT PAGE

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-DDDhh:mm:ss)

Abbreviations:

Abbreviation	Description
CND	condition
M	mandatory
O	optional
C	conditional

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

Parameters of the Hosted Payment Page

These parameters are mandatory for all payment methods and has to be submitted Blowfish-encrypted within the Data parameter to the Hosted Payment Page.

Notice: Please take all further parameters specifically for a payment method from the manual of that respective payment method.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
MerchantID	ans..30	M	Merchant ID, assigned by Computop This parameter is to be passed in plain language.
TransID	ans..64	M	TransactionID which should be unique for each payment
RefNr	ns..30	O	Unique reference number
Amount	n..12	M	Amount in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217
OrderDesc	ans..384	M	Description of purchased goods, unit prices etc. Please note: The first 27 characters appear on the customer-account statement. You can view the full data in Computop Analytics.
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
UserData	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
URLSuccess	ans..256	M	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 .
URLFailure	ans..256	M	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 .
Response	a7	O	Status response sent by Paygate to URLSuccess and URLFailure , should be encrypted. For this purpose, transmit Response=encrypt parameter.
URLNotify	ans..256	M	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.

Parameters for Hosted Payment Page

Following parameters are optional and can be submitted unencrypted to the Hosted Payment Page:

Parameter	Format	CND	Description
Template	ans..20	O	Name of XSLT-file with your own layout for the Hosted Payment Page. If you don't submit a value the responsive Computop template of the Hosted Payment Page is displayed.
CCTemplate	ans..20	O	Name of XSLT-file with your own layout for the credit card form. This is used only if the customer selects a credit card brand and then clicks on „Next“ button. If you don't submit a value the responsive Computop credit card form template is displayed.
SDDTemplate	ans..20	O	Name of XSLT-file with your own layout for the direct debit form. This is used only if the customer selects direct debit as payment method and clicks on „Next“ button. If you don't submit a value the responsive Computop direct debit form template is displayed.

Language	a2 (enum)	O	Language code: <de> German, <al> Albanian, <at> Austrian, <cz/cs> Czech, <dk> Danish, <en> English, <fi> Finish, <fr> French, <gr> Greek, <hu> Hungarian, <it> Italian, <jp> Japanese, <nl> Dutch, <no> Norwegian, <pl> Polish, <pt> Portuguese, <ro> Romanian, <ru> Russian, <es> Spanish, <se> Swedish, <sk> Slovakian, <sl> Slovenian, <tr> Turkey, <zh> Simplified Chinese. No details means the language is German.
URLBack	ans..256	O	URL for button „Back“. If you don't submit this parameter also the button is not displayed. If you submit the parameter and the customer selects credit card or direct debit as payment method this parameter is used also on the credit card form or direct debit form for button „Back“.
PayTypes	ans..256	O	With this parameter you can override the payment methods to be displayed, i.e. you can decide within this parameter separated by pipe which of the available payment methods are displayed. Take the possible values from the column PayType within the table of payment methods given above. Example: ...&PayTypes=CC EDD Alipay

Optional parameters for Hosted Payment Page

Corporate PaymentPage: XSLT layout for forms

You can change the parameter Template to create an individual layout for your Hosted Payment Page form which exactly matches the shop layout To this end your graphic designer can design an HTML-template in the shop-design based on XSLT (Extensible Stylesheet Language Transformation). Computop Support copies this XSLT-template to our Paygate Server. If you enter the name of your XSLT-file in the Template parameter, the Paygate form will appear in your layout.

The XSLT templates for the Hosted Payment Page form have several advantages:

1. Merchants can bypass the costly PCI-security authorisation
2. The Hosted Payment Page is responsive, i.e. it works on Smartphones, Tablets or on the Laptop

For general information about XSLT see www.w3.org.

The subsequent conventions apply for the use of the Corporate Paypage with XSLT:

File names

A XSL file designed by you defines your individual layout. The associated XML file contains the texts that are to be displayed on the form. Hence, multilingualism is easy. Always use your MerchantID in the names of the files.

XSL template: **MerchantID_PaymentPage.xsl**
XML text file: **MerchantID_PaymentPage.xml**
Sub folder for pictures, CSS- and JS-files: **Templates/imagesMerchantID_PaymentPage**

In order not to receive safety notices, please ensure that external image sources are retrieved via SSL.

In order to call the individual layout, use the 'Template' parameter with your MerchantID and attach it unencrypted to the call of the form of Hosted Payment Page, for example:

https://www.computop-paygate.com/paymentPage.aspx?MerchantID=IhreMID&Len=123&Data=AGSDJ...ASDF&template=IhreMerchantID

Hidden Fields

The following hidden fields must be implemented so that the values can be passed on when sending the form:

MerchantID: „MerchantID“
Request length: „Len“
Request data: „Data“
Template: „Template“
Language: „Language“
URL for back button: „URLBack“
Payment method: „PaymentMethod“
Credit card brand: „CreditCardBrand“

Language selection

The language selection on the Hosted Payment Page form occurs automatically depending on the parameter **Language**. Other language areas are filtered out. If you wish to access the field of another language area e.g. with JavaScript, you can do so via the following path: **paygate/language/@name**.

XML structure

The 'Language' parameter controls which section of the XML text file is read out. German 'de' is always used as standard.

The XML file should have the following basic structure:

```
<?xml version="1.0" encoding="utf-16"?>
  </languages>
    <language name="de">
      <title>Zahlung</title>
      ...
    </language>
    <language name="en">
      <title>Payment</title>
      ...
    </language>
  </languages>
```

'UTF-8' is also possible for the coding.

With **<xsl:variablename="" select="paygate/language/@name"/>** you can directly address an XML language section from the XSL file.

For an overview of which parameters are rendered by the Hosted Payment Page, please examine the following structure (XSL file is rendered against the following XML string):

```

strXML = "<?xml version='1.0' encoding='windows-1252'?>" & _
<paygate>
  <merchantID>...</merchantID>
  <len>257</len>
  <data>E98D4...F7065</data>
  <template>
  <urlBack><![CDATA[http://www.google.de]]></urlBack>
  <paymentMethods>
    <VISA type="CC" displayName="Visa"/>
    <MasterCard type="CC" displayName="MasterCard"/>
    <AMEX type="CC" displayName="American Express"/>
    <DINERS type="CC" displayName="Diners Club International"/>
    <Discover type="CC" displayName="Discover"/>
    <JCB type="CC" displayName="JCB"/>
    <EDD lowercase="edd">
    <PayPal lowercase=="paypal">
    <iDEAL lowercase=="ideal">
  </paymentMethods>
  <language name="de">
    <title>Zahlung</title>
    ...
  </language>
</paygate>

```

In your XSL file you can access each single value within this XML structure which is rendered in the backend based on the XML language file and additional values.

JavaScript

You can find individual JavaScript methods either in the HEAD section of your XSL file or within the file main.js that can be found in the images folder at

Templates/imagesMerchantID_PaymentPage/js.

Notice: Please do not use any external links to your JavaScript!