



# **PagBrasil**

Integration Guide

Version 6.2.2

As of: 26.02.2017

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## Document history

Date	Name	Change
26.02.2017	Peter Posse	Addr parameters description changed
04.10.2016	Peter Posse	First version based on Paygate Manual 6.10

# ABOUT PAGBRASIL

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## General information about payment methods via PagBrasil

The majority of online payments in Brazil are made using credit cards. In 75% of these payments, Brazilian customers pay by instalment. The merchant is credited the full amount while the bank earns fees on the instalment payments. Only a third of all credit cards in Brazil can be used for international eCommerce. The majority of local cards, even issued by Visa, MasterCard or Amex, require contracts with local partners for these cards to be accepted and to achieve a good exchange rate. Domestic Brazilian cards include Hipercard, Elo and Aura.

The Cash-in solution of Boleto Bancário is another widely used payment method in eCommerce. The merchant provides the buyer with a type of pro forma invoice which can be paid at cash machines, banks, post offices, retailers or via Internet banking. Purely online transfers like PagBrasilOTF are also expected by customers from merchants in Brazil.

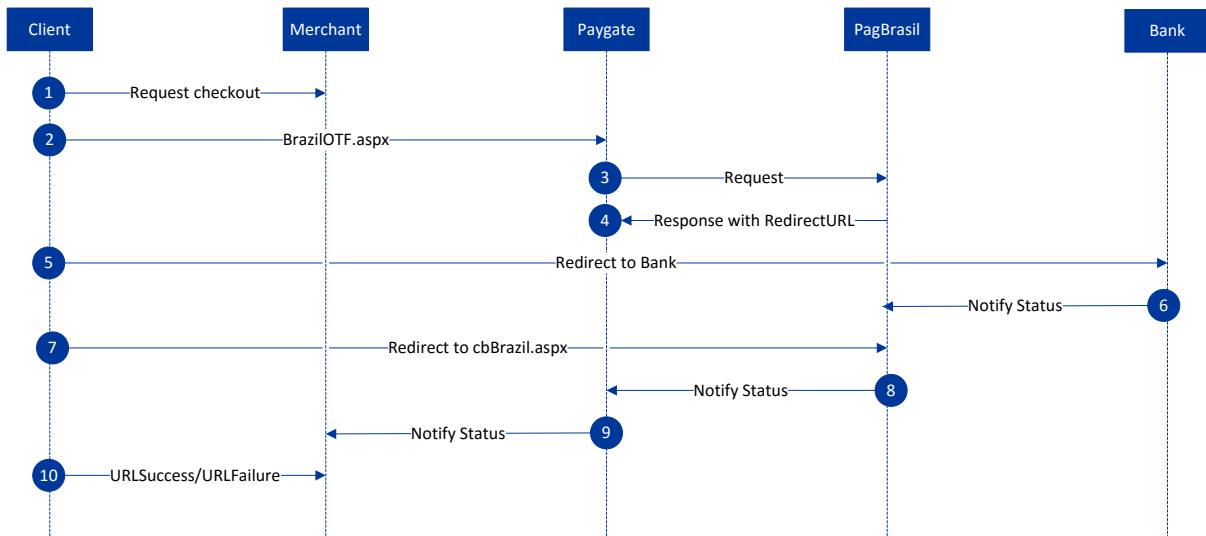


Payments with the Brazilian credit cards Hipercard, Elo and Aura can be processed via the Paygate. Computop offers extensive support for the control optimisation as well as foreign currency conversion.

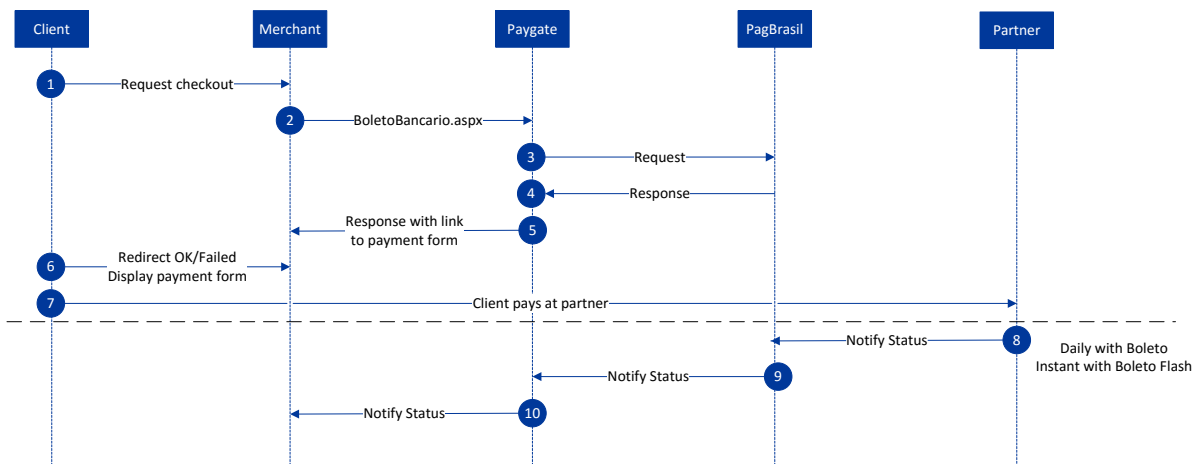


More than 30% of online payments in Brazil are made using the Boleto Bancário cash-in solution. With a payment form customers can pay in cash in supermarkets, post office branches or at one of over 48,000 bank terminals.

## Process flow chart



PagBrasilOTF process flow



PagBrasil Boleto Bancário process flow

# 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-DDDhh:mm:ss)

Abbreviations:

Abbreviation	Description
CND	condition
M	mandatory
O	optional
C	conditional

## Credit card payment with PagBrasil via Paygate form interface

Payments with PagBrasil are made via the standard Paygate form interface for credit card payments. In order to execute an SSL credit card payment with PagBrasil via a Paygate form, visit the following URL:

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

**Notice:** For security reasons, 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:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment

<b>RefNr</b>	ans..30	M	Merchant's unique reference number
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. BRL Centavos) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a3	M	Currency, three digits DIN / ISO 4217 Only BRL permitted.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>URLSuccess</b>	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 <b>UserData</b> .
<b>URLFailure</b>	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 <b>UserData</b> .
<b>Response</b>	a7	O	Status response sent by Paygate to <b>URLSuccess</b> and <b>URLFailure</b> , should be encrypted. For this purpose, transmit <b>Response=encrypt</b> parameter.
<b>URLNotify</b>	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 <b>UserData</b> parameter instead.
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>Capture</b>	ans..6	O	Determines the type and time of capture. <b>AUTO</b> : capturing immediately after authorisation (default value). <b>MANUAL</b> : capturing made by the merchant. <b>&lt;Number&gt;</b> : Delay in hours until the capture (whole number; 1 to 696). For transactions with Hipercard only AUTO is possible.
<b>CreditCardHolder</b>	ans..60	M	Name of the card holder
<b>Name</b>	ans..128	O	Name of the customer. If Name is not specified, the CreditCardHolder is transferred.
<b>AddrStreet</b>	ans..46	M	Customer's street name (Optional, if agreed with PagBrasil and Computop)
<b>AddrCity</b>	ans..40	M	Customer's town/city (Optional, if agreed with PagBrasil and Computop)
<b>AddrZip</b>	ans..8	M	Customer's post code (Optional, if agreed with PagBrasil and Computop)
<b>AddrState</b>	a2	M	Abbreviation of the customer's Federal State. See the following table for the Federal States of Brazil. (Optional, if agreed with PagBrasil and Computop)
<b>TaxNumber</b>	n11/n14	M	In Brazil there are two kinds of tax numbers: CPF for persons and CNPJ for companies. CPF: 11 characters without separators, e.g. 12312312312 CNPJ: 14 characters without separators, e.g. 12345678000123 (Optional, if agreed with PagBrasil and Computop)
<b>eMail</b>	ans..128	M	Customer's email address (Optional, if agreed with PagBrasil and Computop)
<b>Phone</b>	ans..40	M	Customer's phone number (Optional, if agreed with PagBrasil and Computop)
<b>ChDesc</b>	ans..12	M	Text printed on the customer's credit card bill alongside the payee ('PAGBRASIL').
<b>OrderDesc</b>	ans..768	M	Description of purchased goods, unit prices etc.
<b>ArticleList</b>	ans..254	O	Description of the goods purchased. Example: ProductName; Quantity+ProductName;Number The product and the quantity are indicated on the customer's bill.
<b>ReqID</b>	ans..32	O	To avoid double payments, enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction is submitted again with the same ReqID, Paygate will not carry out the payment, but will just return the status of the original transaction.
<b>InstallmentNumber</b>	n..2	O	Number of months of the payment by instalments (1-12), default=1.

<b>Plain</b>	ans..50	O	A value to be set by the merchant to return some information unencrypted, e.g. the MID
<b>Custom</b>	ans..1024	O	The merchant can submit several values separated by   which are returned un-encrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Parameters for credit card payments with PagBrasil

To adapt the layout of the SSL-page to your shop you can use the following unencrypted parameters to configure colours, fonts and images.

Parameter	Format	CND	Description
<b>Template</b>	ans..20	M	Name of XSLT-file with your own layout for the pay form. If you want to use the redesigned and downwards compatible Computop template, please transfer the template name "ct_compatible". If you want to use the responsive Computop template for mobile devices, please transfer the template name "ct_responsive".
<b>Background</b>	ans..256	M	Background ambiance of form: URL for a background image - HTML-colour value for background colour as HEX value or - HTML-colour name
<b>BGColor</b>	ans..7	M	Form background colour: - HTML-colour value for background colour as HEX value or - HTML-colour name
<b>BGImage</b>	ans..256	M	Form background image: URL for a background image Please note that this value supersedes "BGColor".
<b>FColor</b>	ans..6	M	Text colour: - HTML-colour value as HEX value or - HTML-colour name
<b>FFace</b>	a..10	M	HTML-name for the font
<b>FSize</b>	n2	M	Number for font size
<b>Language</b>	a2 (enum)	M	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, <sp> Spanish, <se> Swedish, <sk> Slovakian, <sl> Slovenian, <tr> Turkey, <zh> Simplified Chinese.
<b>CCSelect</b>	a..10	M	Determines preselected card type in the form: VISA, MasterCard, AMEX, DINERS, JCB, CBN, Hipercard, Elo, Aura, Dankort, Airplus, ComfortCard, CUP or Maestro
<b>URLBack</b>	ans..256	M	URL for "Cancel" button
<b>Center</b>	n1	M	By default the form is centered vertically and horizontally. The value <1> centres the form at the top.
<b>tWidth</b>	ans..4	M	Width of table for input of the credit card data as percent- (50%) or pixel values (320).
<b>tHeight</b>	ans..4	M	Height of table for input of the credit card data as percent- (70%) or pixel values (480).

Layout parameters for Paygate forms for credit card payments with PagBrasil

The following table describes the result parameters that the Paygate transmits to your **URLSuccess**, **URLFailure** or **URLNotify**. If you have specified the **Response=encrypt** parameter, the following parameters are forwarded Blowfish encrypted to your system:



Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>OrderID</b>	ans15	MC	Not to URLNotify: Corresponds to RefNr or TransID, depending on whether RefNr is transmitted or not.
<b>Status</b>	a..30	M	OK or AUTHORIZE_REQUEST on the URLSuccess-page and FAILED on the URLFailure-page OK or FAILED on URLNotify
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>RefNr</b>	ans..30	O	Merchant's unique reference number
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.
<b>PCNr</b>	n..16	O	Pseudo Card Number: Random number generated by Paygate which represents a genuine credit card number. The pseudo card number (PCN) starts with 0 and the last 3 digits correspond to those of the real card number. You can use the PCN like a genuine card number for authorisation, capture and credits.
<b>CCBrand</b>	a..22	O	In combination with PCNr: Description of the credit card brand including VISA, MasterCard, AMEX, DINERS, Elo, Aura or Hipercard
<b>CCEpiry</b>	n6	O	In combination with PCNr: Expiry date of the credit card in the format YYYYMM.
<b>MaskedCCNr</b>	an..19	OC	Masked card number 6X4
<b>Plain</b>	ans..50	O	A value to be set by the merchant to return some information unencrypted, e.g. the MID
<b>Custom</b>	ans..1024	O	The merchant can submit several values separated by   which are returned unencrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Return parameters for URLSuccess, URLFailure and URLNotify with PagBrasil

The following table shows the Federal States of Brazil as well as their official Brazilian abbreviation which must be used in the AddrState transfer parameter.

Federal State	Abbreviation
<b>Acre</b>	AC
<b>Alagoas</b>	AL
<b>Amapá</b>	AP
<b>Amazonas</b>	AM
<b>Bahia</b>	BA
<b>Ceará</b>	CE
<b>Distrito Federal</b>	DF
<b>Espírito Santo</b>	ES
<b>Goiás</b>	GO

Maranhão	MA
Mato Grosso	MT
Mato Grosso do Sul	MS
Minas Gerais	MG
Pará	PA
Paraíba	PB
Paraná	PR
Pernambuco	PE
Piauí	PI
Rio de Janeiro	RJ
Rio Grande do Norte	RN
Rio Grande do Sul	RS
Rondônia	RO
Roraima	RR
Santa Catarina	SC
São Paulo	SP
Sergipe	SE
Tocantins	TO

Federal States of Brazil

## Credit card payment via Server-to-Server connection

In order to execute an SSL credit card payment with PagBrasil (Brazil) via a server-to-server connection, call the following URL:

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

**Notice:** For security reasons, 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:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop
TransID	ans..64	M	Merchant's transaction number
RefNr	ans..30	M	Merchant's unique reference number
Amount	n..12	M	Amount in the smallest currency unit (e.g. BRL Centavos) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
Currency	a3	M	Currency, three digits DIN / ISO 4217 Only BRL permitted.
Capture	ans..6	O	Determines the type and time of capture. <b>AUTO</b> : capturing immediately after authorisation (default value). <b>MANUAL</b> : capturing made by the merchant. <b>&lt;Number&gt;</b> : Delay in hours until the capture (whole number; 1 to 696). For transactions with Hipercard only AUTO is possible.
MAC	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>URLNotify</b>	ans..256	O	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 <b>UserData</b> parameter instead. The URL is called only if it is a payment with Hipercard, since in this case the reply from the acquirer is sent with a time delay. Alternatively the payment status can be queried via inquire.aspx.
<b>CCNr</b>	n..19	M	Credit card number at least 12-digit, numerical without spaces. You can optionally transmit also a pseudo card number (PCN)
<b>CCCVC</b>	n..4	O	Card verification number: The last 3 digits on the signature strip of the credit card. 4 characters in the case of AMEX.
<b>CCEpiry</b>	n6	M	Credit card expiry date (YYYYMM), e.g. 201607
<b>CCBrand</b>	a..22	M	Card type: <b>VISA, MasterCard, AMEX, DINERS, Elo, Aura or Hipercard</b> . Please note the spelling!
<b>CreditCardHolder</b>	ans..60	M	Name of the card holder
<b>Name</b>	ans..128	O	Name of the customer. If Name is not specified, the CreditCardHolder is transferred.
<b>AddrStreet</b>	ans..46	M	Customer's street name (Optional, if agreed with PagBrasil and Computop)
<b>AddrCity</b>	ans..40	M	Customer's town/city (Optional, if agreed with PagBrasil and Computop)
<b>AddrZip</b>	ans..8	M	Customer's post code (Optional, if agreed with PagBrasil and Computop)
<b>AddrState</b>	a2	M	Abbreviation of the customer's Federal State. See the table above for the Federal States of Brazil. (Optional, if agreed with PagBrasil and Computop)
<b>TaxNumber</b>	n11/n14	M	In Brazil there are two kinds of tax numbers: CPF for persons and CNPJ for companies. CPF: 11 characters without separators, e.g. 12312312312 CNPJ: 14 characters without separators, e.g. 12345678000123 (Optional, if agreed with PagBrasil and Computop)
<b>eMail</b>	ans..128	M	Customer's email address (Optional, if agreed with PagBrasil and Computop)
<b>Phone</b>	ans..40	M	Customer's phone number (Optional, if agreed with PagBrasil and Computop)
<b>ChDesc</b>	ans..12	M	Text printed on the customer's credit card bill alongside the payee ('PAGBRASIL').
<b>OrderDesc</b>	ans..768	M	Description of purchased goods, unit prices etc.
<b>ArticleList</b>	ans..254	O	Description of the goods purchased. Example: ProductName; Quantity+ProductName;Number The product and the quantity are indicated on the customer's bill.
<b>ReqID</b>	ans..32	O	To avoid double payments, enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction is submitted again with the same ReqID, Paygate will not carry out the payment, but will just return the status of the original transaction.
<b>InstallmentNumber</b>	n..2	O	Number of months of the payment by instalments (1-12), default=1.

Parameters for credit card payments with PagBrasil via socket connection

The following table gives the parameters with which the Paygate responds:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment Important for future reference
<b>XID</b>	an32	M	ID assigned by Paygate for the payment transaction

<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>OrderID</b>	an15	M	Corresponds to RefNr or TransID, depending on whether RefNr is transmitted or not.
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>RefNr</b>	ans..30	O	Merchant's unique reference number
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.
<b>PCNr</b>	n..16	O	Pseudo Card Number; random number generated by Paygate which represents a genuine credit card number. The pseudo card number (PCN) starts with 0 and the last 3 digits correspond to those of the real card number. You can use the PCN like a genuine card number for authorisation, capture and credits.
<b>CCBrand</b>	a..22	O	In combination with PCNr: Description of the credit card brand including VISA, MasterCard, AMEX, DINERS, Elo, Aura or Hipercard
<b>CCExpiry</b>	n6	O	In combination with PCNr: Expiry date of the credit card in the format YYYYMM.
<b>MaskedCCNr</b>	an..19	OC	Masked card number 6X4

Results parameters for socket connection for PagBrasil

In addition to the response of the payment request session, Paygate sends a notification to the URL deposited in Paygate or stated in the parameter [URLNotify], depending on the card brand and the configuration settings of the merchant. This is generally the case for payments with a card of the brand Hipercard (Itau).

In addition, Paygate sends chargeback notifications to the URLNotify for all supported card brands, if the merchant in question is correspondingly configured in Paygate. The chargeback notification contains these parameters

action=CHARGEBACK&chargebackamount={value}.

The following table gives the parameters with which the Paygate responds:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment Important for future reference
<b>XID</b>	an32	M	ID assigned by Paygate for the payment transaction
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>RefNr</b>	ans..30	O	Merchant's unique reference number
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Response parameters to URLNotify for PagBrasil payments with Hipercard

## PagBrasilOTF online transfer

In order to make a payment with PagBrasilOTF, go to the following URL:

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

**Notice:** For security reasons, 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:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ans..30	M	Unique reference number
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. BRL Centavos) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a3	M	Currency, three digits DIN / ISO 4217 Only BRL permitted.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>URLSuccess</b>	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 <b>UserData</b> .
<b>URLFailure</b>	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 <b>UserData</b> .
<b>Response</b>	a7	O	Status response sent by Paygate to <b>URLSuccess</b> and <b>URLFailure</b> , should be encrypted. For this purpose, transmit <b>Response=encrypt</b> parameter.
<b>URLNotify</b>	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 <b>UserData</b> parameter instead.
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>ReqID</b>	ans..32	O	To avoid double payments, enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction is submitted again with the same ReqID, Paygate will not carry out the payment, but will just return the status of the original transaction.
<b>Name</b>	ans..128	O	Name of the customer
<b>AddrStreet</b>	ans..46	M	Customer's street name (Optional, if agreed with PagBrasil and Computop, but not for BankCode = U)
<b>AddrCity</b>	ans..40	M	Customer's town/city (Optional, if agreed with PagBrasil and Computop, but not for BankCode = U)
<b>AddrZip</b>	ans..8	M	Customer's post code (Optional, if agreed with PagBrasil and Computop, but not for BankCode = U)
<b>AddrState</b>	a2	M	Abbreviation of the customer's Federal State. See the table above for the Federal States of Brazil. (Optional, if agreed with PagBrasil and Computop, but not for BankCode = U)
<b>TaxNumber</b>	n11/n14	M	In Brazil there are two kinds of tax numbers: CPF for persons and CNPJ for companies. CPF: 11 characters without separators, e.g. 12312312312 CNPJ: 14 characters without separators, e.g. 12345678000123 (Optional, if agreed with PagBrasil and Computop, but not for BankCode = U)

<b>Email</b>	ans..128	M	Customer's email address (Optional, if agreed with PagBrasil and Computop, but not for BankCode = U)
<b>Phone</b>	ans..40	M	Customer's phone number (Optional, if agreed with PagBrasil and Computop, but not for BankCode = U)
<b>OrderDesc</b>	ans..768	M	Description of purchased goods, unit prices etc.
<b>ArticleList</b>	ans..254	O	Description of the goods purchased. Example: ProductName; Quantity+ProductName;Number The product and the quantity are indicated on the customer's bill.
<b>BankCode</b>	enum	M	Identification of the financial institution of the customer R = Bradesco Comércio Eletrônico E = Banco do Brasil Comércio Eletrônico S = Banricompras U = Itaú Shoptline
<b>Plain</b>	ans..50	O	A value to be set by the merchant to return some information unencrypted, e.g. the MID
<b>Custom</b>	ans..1024	O	The merchant can submit several values separated by   which are returned un-encrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Parameters for online transfers with PagBrasil

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

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>OrderID</b>	an15	MC	Not to URLNotify: Corresponds to RefNr or TransID, depending on whether RefNr is transmitted or not.
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024		Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>RefNr</b>	ans..30	O	Merchant's unique reference number
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.
<b>Plain</b>	ans..50	O	A value to be set by the merchant to return some information unencrypted, e.g. the MID
<b>Custom</b>	ans..1024	O	The merchant can submit several values separated by   which are returned un-encrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Response parameters for URLSuccess, URLFailure and URLNotify with PagBrasilOTF

## Cash payment with PagBrasil Boleto Bancário

In order to execute a cash payment with PagBrasil Boleto Bancário (Brazil) via a server-to-server connection, call the following URL:

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

**Notice:** For security reasons, 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:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ans..30	M	Unique reference number. Format must be mutually agreed beforehand with Computop!
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. BRL Centavos) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a3	M	Currency, three digits DIN / ISO 4217 Only BRL permitted.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>URLNotify</b>	ans..256	O	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 <b>UserData</b> parameter instead.
<b>Name</b>	ans..128	M	Name of the customer
<b>AddrStreet</b>	ans..46	M	Customer's street name (Optional, if agreed with PagBrasil and Computop)
<b>AddrCity</b>	ans..40	M	Customer's town/city (Optional, if agreed with PagBrasil and Computop)
<b>AddrZip</b>	ans..8	M	Customer's post code (Optional, if agreed with PagBrasil and Computop)
<b>AddrState</b>	a2	M	Abbreviation of the customer's Federal State. See the table above for the Federal States of Brazil. (Optional, if agreed with PagBrasil and Computop)
<b>TaxNumber</b>	n11/n14	M	In Brazil there are two kinds of tax numbers: CPF for persons and CNPJ for companies. CPF: 11 characters without separators, e.g. 12312312312 CNPJ: 14 characters without separators, e.g. 12345678000123 (Optional, if agreed with PagBrasil and Computop)
<b>eMail</b>	ans..128	M	Customer's email address (Optional, if agreed with PagBrasil and Computop)
<b>Phone</b>	ans..40	M	Customer's phone number (Optional, if agreed with PagBrasil and Computop)
<b>OrderDesc</b>	ans..768	M	Description of purchased goods, unit prices etc.
<b>ArticleList</b>	ans..254	O	Description of the goods purchased. Example: ProductName; Quantity+ProductName;Number The product and the quantity are indicated on the customer's bill.
<b>Expiration</b>	n..3	O	Number of days for which the payment form is valid
<b>ReqID</b>	ans..32	O	To avoid double payments, enter an alphanumeric value which identifies your transaction and may be assigned only once. If the transaction is submitted again with the same ReqID, Paygate will not carry out the payment, but will just return the status of the original transaction.

<b>Custom</b>	ans..1024	O	The merchant can submit several values separated by   which are returned un-encrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456
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Parameters for payments with Boleto Bancário via socket connection

The following table gives the parameters with which the Paygate responds:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>OrderID</b>	an15	M	Corresponds to RefNr or TransID, depending on whether RefNr is transmitted or not.
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>RefNr</b>	ans..30	O	Merchant's unique reference number
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.
<b>PaymentSlipLink</b>	ans..256	M	Complete URL (URL-encoded) for the page which presents the payment form

Results parameters for socket connection for Boleto Bancário

The following table describes the parameters which the Paygate transfers to **URLNotify**:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>RefNr</b>	ans..30	O	Merchant's unique reference number
<b>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>PaymentSlipLink</b>	ans..256	M	Complete URL (URL-encoded) for the page which presents the payment form



<b>AmountAuth</b>	n..12	M	Authorized amount in the smallest currency unit (e.g. BRL Centavos)
<b>AmountCap</b>	n..12	M	Captured amount in the smallest currency unit (e.g. BRL Centavos) Used to check whether the total amount has been captured.
<b>AmountCred</b>	n..12	M	Credited amount in the smallest currency unit (e.g. BRL Centavos)
<b>Custom</b>	ans..1024	O	The merchant can submit several values separated by   which are returned un-encrypted and separated by &. Custom=session=123 id=456 will change in the answer to Session=123&id=456

Response parameters to URLNotify for payments with Boleto Bancário

## Capture of a credit card payment with PagBrasil

Captures are possible via a Server-to-Server connection. To carry out a Capture for a PagBrasil credit card payment via a Server-to-Server connection please use the following URL:

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

**Notice:** For security reasons, 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:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment to be captured
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ans..30	O	Unique reference number
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. BRL Centavos) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a..3	M	Currency code, three digits DIN / ISO 4217. Only BRL permitted.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Parameters for captures of PagBrasil, PagBrasilOTF and Boleto Bancário

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )

<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>RefNr</b>	ans..30	O	Merchant's unique reference number
<b>OrderID</b>	an15	MC	Corresponds to RefNr or TransID, depending on whether RefNr is transmitted or not.

Response parameters for captures of PagBrasil, PagBrasilOTF and Boleto Bancário

## Credit with reference

Credits (refunds) are possible via a Server-to-Server connection. For a Credit with reference to a capture the amount of the Credit is limited to the amount of the previous capture.

Credits with credit cards can be made within up to 90 days on the credit card given with the payment but only on the same day with debit cards. Later it will be possible to make credit only with the optional parameters AccNr, AccBankName and AccBIC. These must be requested from the customer since no data would be available for a credit on payment. In the case of credits for payments with PagBrasilOTF and Boleto Bancário there is also no data for a credit. Here again the details must be requested from the customer and transferred to the parameters AccNr, AccBankName and AccBIC.

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

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

**Notice:** For security reasons, 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:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment to be credited
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. BRL Centavos) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a..3	M	Currency code, three digits DIN / ISO 4217. For PagBrasilOTF and Boleto Bancário only BRL is permitted.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>CredNo</b>	ans..	OC	Not with PagBrasilOTF/Boleto Bancário: Credit number. Will be set to "0" if not transmitted.
<b>RefNr</b>	ans..30	OC	Only with PagBrasilOTF and Boleto Bancário: Reference number (e.g. invoice number) which must be unique for each return shipment
<b>AccBankName</b>	ans..40	O	Bank name of the customer
<b>AccNr</b>	ans..12	O	Customer's account number (must contain a hyphen, e.g. 12345-6)
<b>AccBIC</b>	ans..12	O	Bank sort code or rather branch number of the bank

Parameters for credit of payments with PagBrasil, PagBrasilOTF and Boleto Bancário

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..64	M	Merchant's transaction number
<b>Status</b>	a..30	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>RefNr</b>	ans..30	OC	Only with PagBrasilOTF and Boletto Bancário: Merchant's unique reference number
<b>OrderID</b>	an15	MC	Corresponds to RefNr or TransID, depending on whether RefNr is transmitted or not.

Response parameters for credit of payments with PagBrasil, PagBrasilOTF and Boletto Bancário

# BATCH PROCESSING VIA THE INTERFACE

Basic information about using Batch files and about their structure can be found in the Batch Manager manual.

This section describes the parameters which must be transferred within the data set (**Record**) for executing payments / credits with PagBrasil, PagBrasilOTF and Boletto Bancário and which information can be found within the response file about the payment status.

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

Action	Version	Description
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)

Description of the possible batch versions

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

```
HEAD,<MerchantID>,<Date>,<Version>
PagBraCC,Capture,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
PagBraCC,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<AccBankName>,<AccNr>,<AccBIC>
PagBraBB,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<AccBankName>,<AccNr>,<AccBIC>
PagBraOTF,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>,<AccBankName>,<AccNr>,<AccBIC>
FOOT,<CountRecords>,<SumAmount>
```

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

Parameter	Format	CND	Description
<b>Type</b>	a..11	M	HEAD für Header, FOOT for Footer, PagBraCC for PagBrasil credit card, PagBraOTF for PagBrasil online transfer, PagBraBB for Boletto Bancário
<b>Action</b>	a..20	M	The parameter Action defines the type of transaction: Capture Credit For credit card payments with PagBrasil captures and credits are possible, for payments with PagBrasilOTF as well as Boletto Bancário only credits are possible.
<b>Amount</b>	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).
<b>Currency</b>	a3	M	Currency code, three digits DIN / ISO 4217
<b>TransID</b>	ans..64	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ns..30	O	Unique reference number
<b>PayID</b>	an32	M	ID for this transaction given by Paygate
<b>AccBankName</b>	ans..40	M	Bank name of the customer
<b>AccNr</b>	ans..12	M	Customer's account number (must contain a hyphen, e.g. 12345-6)
<b>AccBIC</b>	ans..12	M	Bank sort code or rather branch number of the bank

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>
PagBraCC,Capture,<Amount>,<Currency>,<TransID>,(,<RefNr>,<PayID>,<Status>,<Code>
PagBraCC,Credit,<Amount>,<Currency>,<TransID>,(,<RefNr>,<PayID>,<AccBankName>,<Ac-
cNr>,<AccBIC>,<Status>,<Code>
PagBraBB,Credit,<Amount>,<Currency>,<TransID>,(,<RefNr>,<PayID>,<AccBankName>,<Ac-
cNr>,<AccBIC>,<Status>,<Code>
PagBraOTF,Credit,<Amount>,<Currency>,<TransID>,(,<RefNr>,<PayID>,<AccBank-
Name>,<AccNr>,<AccBIC>,<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):

Parameter	Format	CND	Description
<b>Action</b>	a..20	M	The parameter Action defines the type of transaction: Capture Credit
<b>PayID</b>	an32	M	ID for this transaction given by Paygate
<b>Status</b>	a..50	M	OK or FAILED
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )

Description of result parameters within the record for Batch files