



# **QIWI**

Integration Guide

Version 6.2.2

As of: 31.05.2018

# Table of Contents

<b>About QIWI .....</b>	<b>4</b>
General information about QIWI .....	4
Process flow chart.....	4
<b>Paygate interface .....</b>	<b>5</b>
Definitions .....	5
Payment with QIWI via Paygate form interface.....	6
Credit with reference.....	7
<b>Batch processing via the interface.....</b>	<b>9</b>

## Document history

Date	Name	Change
31.05.2018	Peter Posse	Currency only EUR
14.02.2017	Peter Posse	TransactionID added
04.10.2016	Peter Posse	First version based on Paygate Manual 6.10

# ABOUT QIWI

## General information about QIWI

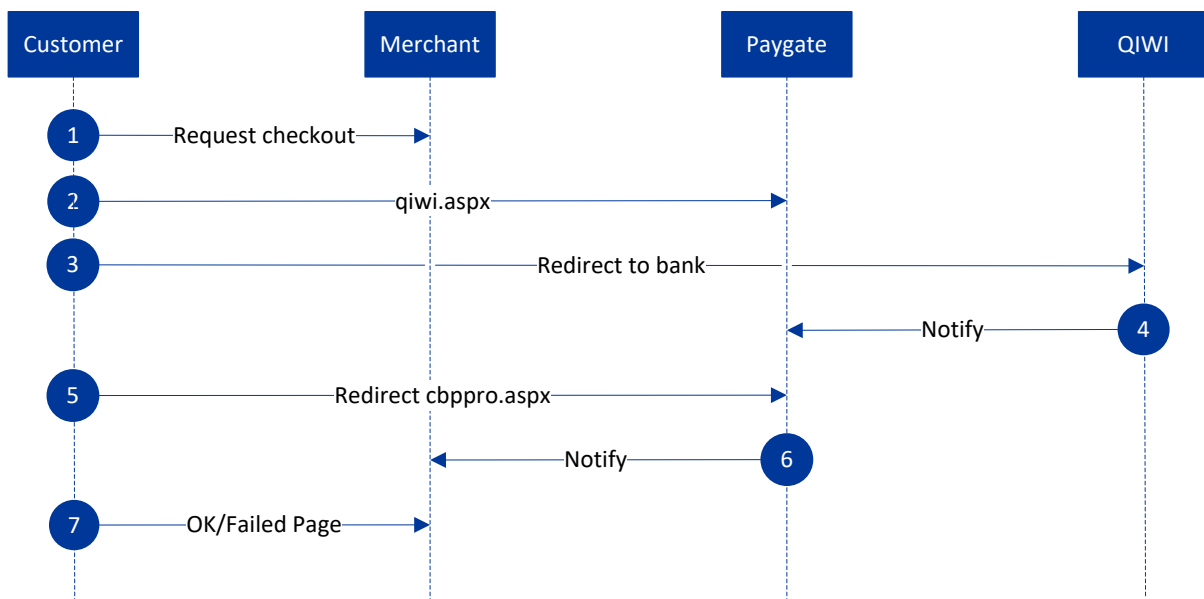
Since 2007 the QIWI Wallet has developed into the largest alternative payment system in Russia with over 400,000 transactions daily. Success is also because cards are not very widespread and only 5 % of the population of Russia have a bank account. The QIWI Wallet can be topped up quickly and flexibly and used for guaranteed payment. Various access options exist for this, even including an iPhone app. Worldwide, QIWI is already available in 20 countries such as China, India, the USA and Brazil.



The QIWI Wallet can be topped up by credit card, debit card or cash. It is available to customers in Eastern Europe, Asia and South America.

Further information you will find also on the webpage of QIWI ([www.qiwi.com](http://www.qiwi.com)).

## Process flow chart



QIWI process flow chart

# PAYGATE INTERFACE

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## 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.

## Payment with QIWI via Paygate form interface

In order to process a payment with QIWI wallet via a Paygate form, go to the following URL:

<https://www.computop-paygate.com/qiwi.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	Merchant transaction number, which must be unique
<b>RefNr</b>	ans..30	O	Unique reference number
<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, three digits DIN / ISO 4217 Only EUR permitted.
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>OrderDesc</b>	ans..768	M	Description of goods and prices. Intended purpose on the statement of account
<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>SellingPoint</b>	ans..50	O	Selling point
<b>Service</b>	ans..50	O	products or service sold
<b>Channel</b>	ans..64	O	Configuration channel of the PPRO contract (account and ContractID are stored in the system). If it exists, it may overwrite channels stored in the system
<b>AccOwner</b>	ans..50	M	Name of account holder
<b>MobileNo</b>	n..20	M	Customer's mobile telephone number
<b>AddrCountryCode</b>	a2	M	Country code for the account holder's invoicing address according to ISO 3166. Presently only RU, KZ, UA allowed.
<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
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Parameters for payments with QIWI

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 for one payment assigned by Paygate
<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 in the case of URLSuccess and AUTHORIZE_REQUEST or FAILED in the case of URLFailure
<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>UserData</b>	ans..1024	O	If specified at request, Paygate forwards the parameter with the payment result to the shop
<b>PaymentPurpose</b>	ans..26	M	Purpose of payment given on voucher. Please indicate the purpose of payment to the customer.
<b>PaymentGuarantee</b>	a..12	C	<b>NONE</b> = no payment guarantee, <b>VALIDATED</b> = customer account valid, but no payment guarantee, <b>FULL</b> = payment guarantee <b>Notice:</b> This parameter is only returned if the Status=OK.
<b>ErrorText</b>	ans..256	C	Detailed PPRO error message. <b>Notice:</b> Is returned only if Status=FAILED. Use is possible only in agreement with Computop support.
<b>TransactionID</b>	an..20	O	Unique transaction number from PPRO
<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 QIWI

## 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.

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. EUR Cent) 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
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Parameters for credit payments with QIWI via socket connection

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>ErrorText</b>	ans..256	C	Detailed PPRO error message. Notice: This parameter is only returned if the Status=FAILED. Use is possible only in agreement with Computop support.
<b>TransactionID</b>	an..20	O	Unique transaction number from PPRO

Response parameters for credit payments with QIWI via socket connection



# 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 a QIWI credit 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 QIWI credit within a Batch file to be submitted is the following:

```
HEAD,<MerchantID>,<Date>,<Version>
QIWI,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <PayID>
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
Type	a..11	M	HEAD for Header, FOOT for Footer, QIWI for QIWI
Action	a..20	M	The parameter Action defines the type of transaction: Credit
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 code, three digits DIN / ISO 4217
TransID	ans..64	M	TransactionID which should be unique for each payment
RefNr	ans..30	O	Unique reference number
PayID	an32	M	ID for this transaction given by Paygate

Description of fields within the record for Batch files

The record area within the response file for Batch transactions looks the following way:

```
HEAD,<MerchantID>,<Date>,<Version>
QIWI,Credit,<Amount>,<Currency>,<TransID>,( <RefNr>,) <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 in):

Parameter	Format	CND	Description
<b>Action</b>	a..20	M	The parameter Action defines the type of transaction: 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