

## *Technical protocol of information exchange between systems.*

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### 1. Used requests

Six types of http-requests are used between the System of payments and the Partner for information transfer:

Route of the request	Form	Description	URL
Partner → System of payments	Payment request, POST	Generated by the Partner into the Payout System to initiate payments on account details	URL_SYSTEM/partner/SERVICE_ID/payout
System of payments → Partner	Payment notification, POST	Generated by the Payout System to notify Partner about the payment	Provided by partner
Partner → System of payments	Payment status request, POST	Generated by the Partner into the Payout System to receive the payment status	URL_SYSTEM/partner/SERVICE_ID/check
Partner → System of payments	Partner's balance request, POST	Generated by the Partner into the Payout System to receive available for payments balance	URL_SYSTEM/partner/SERVICE_ID/balance
Partner → System of payments	Statement of Partner's balance, POST	Generated by the Partner in the System of payments to obtain the report on movement of funds on the balance sheet of the partner	URL_SYSTEM/partner/SERVICE_ID/balance_statement
Partner → System of payments	Registry query operations, GET	Generated by the Partner in the System of payments to obtain the register of transactions for the period	In the description below

URL\_SYSTEM = https://int.gwp.digital – system integration tests

URL\_SYSTEM = https://gwp.digital – commercial system

## 2. Parameter's description

#	Name of parameter	Parameter	Description
0	Account ID in the payment system	SERVICE_ID	Unique identifier of the partner's account in the payment system. Positive integer. For each payment currency the separate account is created.
1	Payment identifier	ID	Application ID for payment in the Partner's system. Unique to the partner.
2	Date-time	DT	Date and time of the request. (Format: yyyy-MM-dd HH:mm:ss — f.ex. '2021-01-31 17:29:34')
3	Amount of payment	AMOUNT	Amount to be deposited. The amount must be more than zero, the fractional part is separated by a dot.
4	Telephone number of client	PHONE	Telephone number of client.
5	Client identifier	CLIENT	Client identifier in the recipient's system. Telephone number, bank card number or otherwise.
6	Recipient identifier	DESTINATION	Destination/recipient of payment. Text field contains the code of the recipient - mobile operator, automatic detection of mobile operator, direction of bank card, otherwise. Directory is a separate file.
7	Control signature	HASH	Control signature. Used to verify the integrity of the received information and the unique identification of the sender. The algorithm for generating MD5-hash is (ID + DT + AMOUNT + PHONE + CLIENT + DESTINATION + SecretKey), where "+" is the sign of concatenation, SecretKey - secret key. The remaining parameters are described in the table above.
Additional options (required for some destinations).			
8	The payment currency	CURRENCY	Value: RUB, EUR, USD. If not passed, it is considered that the payment in rubles. When the coincidence of the currency of account and currency of payment – will be transferred to denial.
9	Name of the sender	PAYER_FIO	Name of the sender of the transfer.
10	Last name	PAYER_LAST_NAME	The last name of the recipient.
11	First name	PAYER_FIRST_NAME	The first name of the recipient.
12	Middle name	PAYER_MIDDLE_NAME	The middle name of the recipient.
13	Document type	PAYER_DOC_TYPE	The type of the identity document of the recipient. Values: The passport of the citizen of the Russian Federation - 21 Applicant's passport - 22 The passport of a foreign citizen - 10
14	A series of a document	PAYER_DOC_SER	Series of the identity document of the recipient.
15	Document number	PAYER_DOC_NUM	The number of the identity document of the recipient.
16	Whom the document was issued	PAYER_DOC_ISSUER	Who issued the document certifying the identity of the recipient.
17	Issue date	PAYER_DOC_DATE	Date of issue of the identity document of the recipient.
18	Date of birth	PAYER_BIRTH_DATE	Date of birth of the recipient.
19	Place of birth	PAYER_BIRTH_PLACE	Place of birth of the recipient.
20	Address	PAYER_ADDRESS	The address of the recipient, the place of registration.
21	The name of the recipient	RECIEVER_FIO	The Name of the recipient.
22	Country	RECEIVER_COUNTRY	Country of issue of transfer. Value: Russian Federation - 643
23	City	RECEIVER_CITY	City of issuer of the transfer
24	Date of birth	RECEIVER_BIRTH_DATE	Date of birth of issue of transfer. (Format: YYYY-MM-DD — f.ex. '2014-01-31')
25	Bank BIC	RECEIVER_BIC	The BIC of the beneficiary Bank.
26	The owner of the card	CARD_HOLDER	The owner of the card
27	Currency card	CARD_CURRENCY	The currency of the card (Possible values: RUB,EUR,USD)

28	The validity of card	CARD_EXPIRE	The validity of the card
29	Details of the payment	DETAILSOFPAYMENT	Details of the payment

The data must be encoded to application/x-www-form-urlencoded.

### 3. Payment request

Name of parameter	Parameter
Payment identifier by the Partner	ID
Date-time	DT
Amount of payment	AMOUNT
Telephone number of client	PHONE
Client identifier	CLIENT
Recipient identifier	DESTINATION
Control signature	HASH (ID+DT+AMOUNT+PHONE+CLIENT+DESTINATION+SecretKey)
Additional options (required for some destinations).	
The payment currency	CURRENCY
Name of the sender	PAYER_FIO
Last name	PAYER_LAST_NAME
First name	PAYER_FIRST_NAME
Middle name	PAYER_MIDDLE_NAME
Document type	PAYER_DOC_TYPE
A series of document	PAYER_DOC_SER
Document number	PAYER_DOC_NUM
Whom the document was issued	PAYER_DOC_ISSUER
Issue date	PAYER_DOC_DATE
Date of birth	PAYER_BIRTH_DATE
Place of birth	PAYER_BIRTH_PLACE
Address	PAYER_ADDRESS
The name of the recipient	RECIEVER_FIO
Country	RECEIVER_COUNTRY
City	RECEIVER_CITY
Date of birth	RECEIVER_BIRTH_DATE
Bank BIC	RECEIVER_BIC
The owner of the card	CARD HOLDER
Currency card	CARD_CURRENCY
The validity of card	CARD_EXPIRE
Details of the payment	DETAILSOFPAYMENT

Response (response) in XML format, coding UTF-8 (Content-type: text/plain):

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<response>
```

```
    <id>ID</id>
```

```
    <result>RESULT</result>
```

```
</response>
```

Parameter	Description	Obligatory parameter
ID	Payment identifier	Obligatory for result = OK
RESULT	Text description of the current payment status.	Yes. (OK or ERROR: <text description of the error>. OK —request received successfully. ERROR — An error has occurred and the interaction should stop. If payment with such ID already exists - the field contains a text description similar to the query status (PAID, NOT_PAID, PROCESSING))

#### 4. Payment notification

Name of parameter	Parameter
Payment identifier by the Partner	ID
Date-time	DT
Amount of payment	AMOUNT
Result of payment	RESULT (1 — payment done, 0 — payment not done)
Error of payment	ERROR (If RESULT = 0 — contains the description of non-payment reason)
Recipient identifier	DESTINATION
Control signature	HASH (ID+DT+AMOUNT+RESULT+DESTINATION+SecretKey)

Partner should respond to the request by text: OK or ERROR. OK - status received successfully. ERROR - An error occurred and the interaction should stop. Upon receipt of any other response (other text or http status which is not equal to 200) the System of Payout System should repeat the requests until the successful status transfer.

Repeated notifications are sent at intervals (seconds): 10,30,60,60,60,60,60,300,300,300,3600 and 48 hours stop.

#### 5. Payment status request

Name of parameter	Parameter
Payment identifier by the Partner	ID
Date-time	DT
Amount of payment	AMOUNT
Recipient identifier	DESTINATION
Control signature	HASH (ID+DT+AMOUNT+DESTINATION+SecretKey)

Response (response) in XML format, coding UTF-8 (Content-type: application/xml):

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<response>
```

```
    <id>ID</id>
```

```
    <result>RESULT</result>
```

```
</response>
```

Parameter	Description	Obligatory parameter
ID	Payment identifier	Obligatory
RESULT	Text description of the current payment status.	Yes. (Corresponds to: PAID, NOT_PAID, NOT_FOUND, PROCESSING)

## 6. Partner's balance request

Name of parameter	Parameter
Date-time	DT
Control signature	HASH (DT+SecretKey)

Response (response) in XML format, coding UTF-8 (Content-type: application/xml):

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <balance>BALANCE</balance>
</response>
```

Parameter	Description
BALANCE	Available for payments balance.

## 7. Statement of Partner's balance

Name of parameter	Parameter
Date-start time	DT_START (dd.MM.yyyy HH:mm)
Date / time of end of the period	DT_END (dd.MM.yyyy HH:mm)
Control signature	HASH (DT_START+DT_END+SecretKey)

Response (response) in XML format, coding UTF-8 (Content-type: application/xml):

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <statement id="ID" dt="DT" type="TYPE">
    <sum>SUM</sum>
    <comment>COMMENT</comment>
  </statement>
  .....
  <statement ....>
    .....
  </statement>
</response>
```

Parameter	Description
ID	The internal ID of the transaction with the balance
DT	Date-time operations balance sheet (dd.MM.yyyy HH:mm)
TYPE	Operation type: IN — transfer, OUT write – offs
SUM	The amount of the transaction credited/debited
COMMENT	Comment

## 8. The request of the register of transactions for the period

Название параметра	Параметр
Type of registry	TYPE (xml, json, csv)
The partner ID in the System of payments	SERVICE_ID
Date/time start of the period	DT_START (dd.MM.yyyy HH:mm)
Date/time end of the period	DT_END (dd.MM.yyyy HH:mm)
Hash	HASH (DT_START+DT_END+SecretKey)

The request is directed to URL\_SYSTEM/reestr/TYPE?SERVICE\_ID=SERVICE\_ID&DT\_START=DT\_START&DT\_END=DT\_END&HASH=HASH

In response to the request will be forwarded to the registry for the specified period in the requested format.

The selection is based on the date/time when the operation was created in the System.

All operations which meet the DT\_START<= date / time of creation < DT\_END conditions are chosen for the selection.

## 9. Payment destinations

Payment destination	DESTINATION	Required fields	The payment currency
Bank card number of the VISA or MasterCard payment system emitting in the territory of Russia	1	1-7, 21	RUB
By number of bank card payment system VISA or MasterCard (CRD,P2P)	3	1-8, 21-24, 26, 28	EUR, USD, GBP
Transfer of funds in favor of the beneficiaries, who are the holders of "MIR" Card Payment System	4	1-7, 21	RUB
Bank card number of the VISA or MasterCard payment system emitting in the world	5	1-7, 18, 21, 26	RUB
Bank card number of the VISA or MasterCard payment system emitting in the territory of Ukraine	6	1-8, 21	UAH
Bank card number of the VISA or MasterCard payment system emitting in the territory of Kazakhstan	7	1-8, 21	KZT
Personal account of the Suppliers – mobile and fixed phone operators of Russia	10	1-7, 21	RUB
WebMoney R	150	1-7, 21	RUB
Yandex.Money	153	1-7, 21	RUB
Qiwi Wallet	156	1-7, 21	RUB
Qiwi Visa Wallet	157	1-7, 21	RUB
Mobile phone operators of Russia, MTS	11	1-7, 21	RUB
Mobile phone operators of Russia, Megafon	12	1-7, 21	RUB
Mobile phone operators of Russia, Beeline	13	1-7, 21	RUB
Mobile phone operators of Russia, Tele2	14	1-7, 21	RUB
Mobile phone operators of Russia, Motiv	15	1-7, 21	RUB
Mobile phone operators of Russia, SMARTS Astrakhan	16	1-7, 21	RUB
Mobile phone operators of Russia, SMARTS Ivanovo	17	1-7, 21	RUB
Mobile phone operators of Russia, SMARTS Kazan	18	1-7, 21	RUB
Mobile phone operators of Russia, SMARTS Penza	19	1-7, 21	RUB
Mobile phone operators of Russia, SMARTS Samara, Ivanovo, Kazan, Ufa	20	1-7, 21	RUB
Mobile phone operators of Russia, SMARTS Chuvashiya	21	1-7, 21	RUB
Mobile phone operators of Russia, SMARTS Yaroslavl	22	1-7, 21	RUB
Mobile phone operators of Russia, Ulan-Ude Cellular Network	23	1-7, 21	RUB
Mobile phone operators of Russia, Yota	47	1-7, 21	RUB
Mobile phone operators of Russia, Skylink Volgograd	48	1-7, 21	RUB
Mobile phone operators of Russia, Skylink Vladimir	49	1-7, 21	RUB
Mobile phone operators of Russia, Tinkoff Mobail	50	1-7, 21	RUB
Mobile phone operators of Russia, Rostelecom	51	1-7, 21	RUB