

Merchant Manual (EN)

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1. About the document

The present document describes connection and graphical interfaces of the payment gate.

2. Terms

- Merchant is a retailer or a service provider that uses a website for selling goods or services.
- Bank card is a VISA or MasterCard card.
- Issuing bank is the bank that issued a client's bank card.
- IPS is acronym for International Payment System (e.g. Visa or MasterCard).
- Payment gate of the acquirer bank (PG) is the automatic system that allows merchants to receive, and clients to perform payments with bank cards over the internet.
- Acquirer bank is the bank that implements and runs the payment gate.
- 3D Secure (Verified by Visa) is a technology developed by Visa that allows to perform additional authorization for a client on the side of the issuer bank.
- SecureCode is a technology developed by MasterCard that allows to perform additional authorization for a client on the side of the issuer bank. Practically the same as the 3-D Secure technology. Further in the document both technologies will be referred to as 3D Secure.
- Merchant Plugin Interface (MPI) is a component of 3D Secure technologies that may be implemented in the payment gate or on the merchant's side.

- ACS is acronym for Access Control Server which is an element of 3D Secure infrastructure that ensures validation of the payer by the issuer bank.
- Payment form is an HTML page that clients use for entering payment's properties.
- Payment details are attributes of the card that the client uses for paying an order. Usually payment detail are: card number, expiration date and CVC/CVV.
- Payer (client) is an individual who pays by his bank card in the Merchant online shop for Merchant services.
- Binding is correspondence between the Payer and card payment details (card number, expiration date and CVC/CVV)
- Order is the elementary entity of the system, that describes the order in a certain online shop or its analog. Any order has the sum.
- Purchase payment is a payment for goods / services, performed via the Internet with using of a credit card, which requires no further confirmation.
- Pre-Authorization payment is a payment for goods / services, performed via the Internet with using of a credit card, which requires further confirmation. Pre-Authorization procedure of the checking process allows you to divide the solvency of a credit card (authorization) and withdrawals (financial confirmation). First stage of pre-authorization payment is checking of the solvency of a credit card and blocking of funds on the payer's account.
- Reversal is the unlocking of funds on the payer's account. This feature is available for a limited time, the exact terms to be specified in the bank.
- Refund is a partial or full refund to the payer's card in case of refusal from goods (services) or refund of goods. The operation of money return is performed after money withdrawal from the payer's account.

3. Connecting to the payment gate

In order to connect to the system a merchant provides:

- HTML page (graphic, CSS and other necessary files) showing the payment form. Requirements to this page are described in the section [Payment page design](#).

After registration each merchant receives:

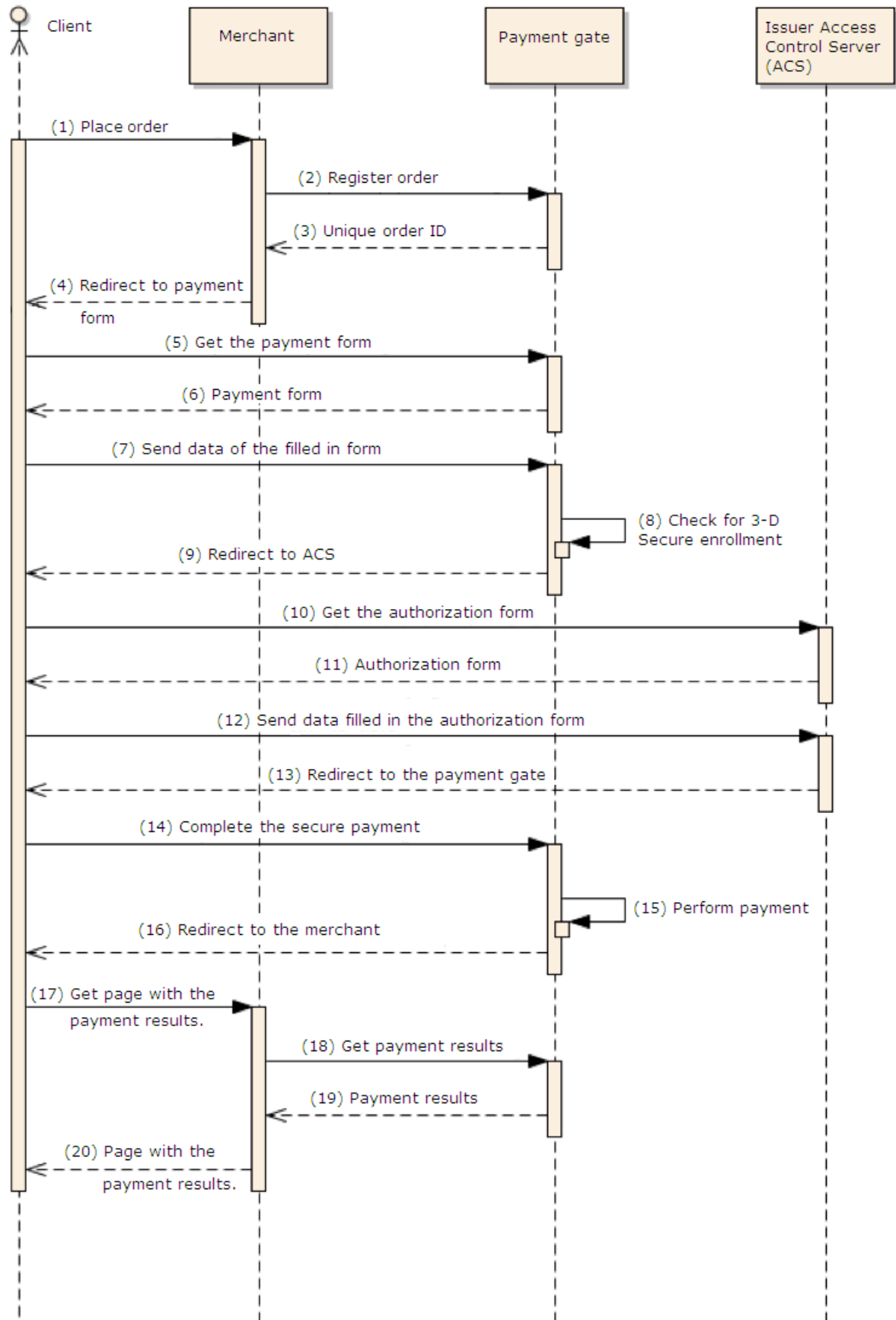
1. Login - name of the merchant within the payment gate. Login is used only to perform operations via API.
2. Password - password of the merchant within the payment gate. Login is used only to perform operations via API.

4. Interaction between systems during a payment

There are two possible cases for payment: the first case is with the card being involved with a 3D Secure technology, and the second one is with the card being not involved in 3D.

4.1. Interaction scheme of the process using 3D Secure

System interaction in case of a 3-D Secure card



Description:

1. The client forms an order using the online shop of the merchant.
2. When the order is confirmed by the client, the merchant system registers the order in the payment gate. The following parameters are used for order registering: amount to be charged and currency of the expected payment, internal order number and merchant URL for client redirecting after payment.
3. The payment gate responds with a unique identifier of the registered order and with a URL of the payment form that the client should be redirected to.
4. Merchant system redirects the client to the URL generated in the previous step.
5. Client's browser opens the URL.
6. As a result, the browser opens the payment form.
7. The client fills in the form and sends the data to the payment gate server.
8. The payment gate checks if the specified card is involved into 3D Secure (SecureCode).
9. The gate redirects the client's browser to the ACS page of the issuer bank (this step is mandatory for 3D Secure processing).
10. Client's browser requests authorization form from the ACS (each issuer implements this step in its own way).
11. ACS sends the form to the client.
12. Client fills in this form and sends the data back to ACS.
13. ACS processes the data and (regardless of the result) redirects the client's browser to a page of the payment gate. Along with it the URL of the page browser receives enciphered authorization results.
14. Client's browser opens the page, passing authorization results to the payment gate.
15. The payment gate performs the payment.
16. When the payment is processed, the payment gate sends the return URL to the client's browser (specified by the merchant during the order registration).
17. Client's browser requests the payment results page from the merchant.
18. The merchant system requests the payment state from the payment gate using the order identifier assigned by the gate earlier. Note that payment state request (`getOrderStatus` or `getOrderStatusExtended`) is mandatory for implementation for all merchants.
19. The payment gate returns the payment status.
20. The merchant system sends the page with payment results to the client's browser.

If the Client does not return to the merchant page of payment results (to the Client's return URL) after 20 minutes allotted for a payment, the payment is considered to be a failure.

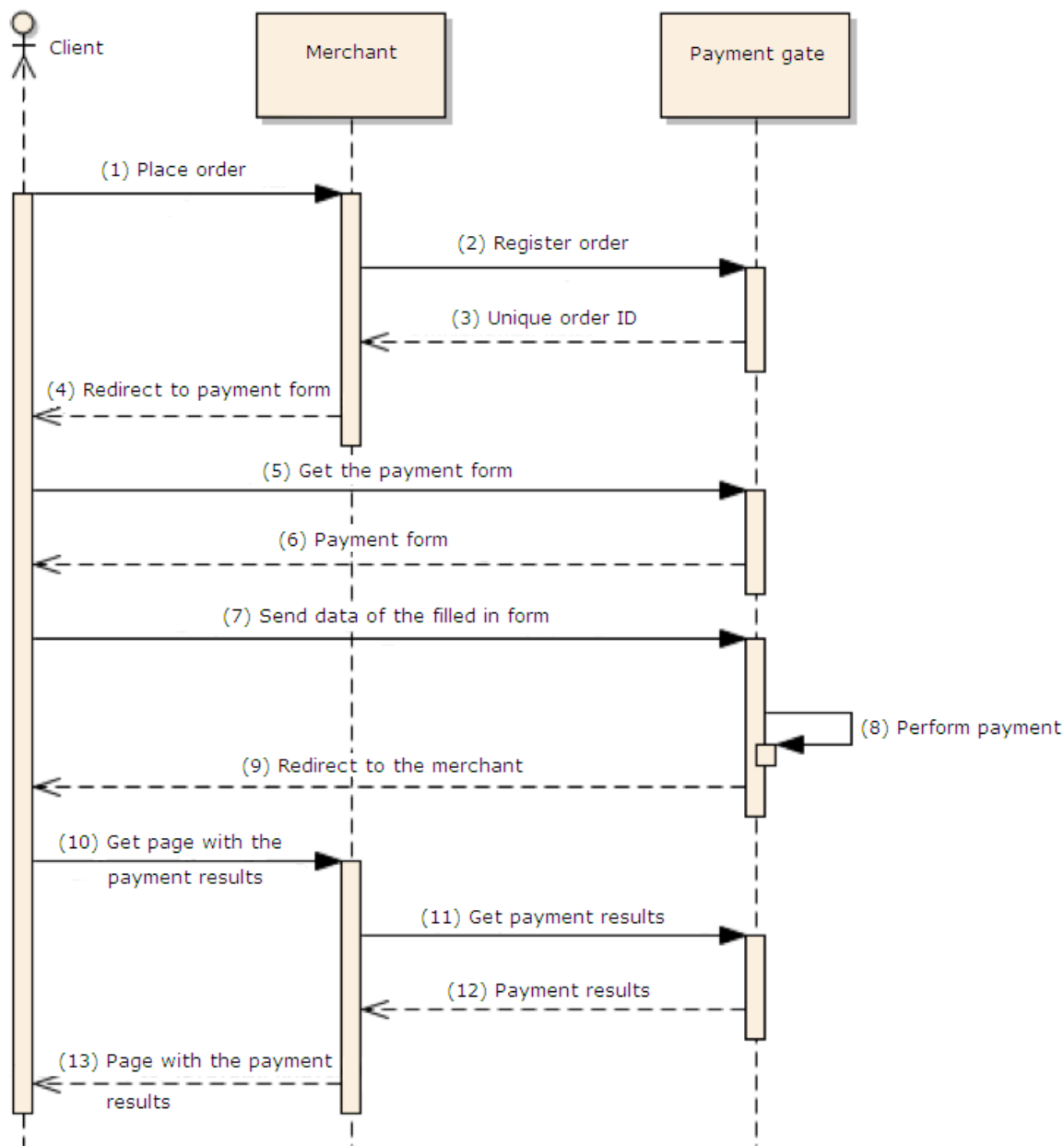
Under the request of the merchant the status of order payment can be changed manually by Bank employees after checking of transaction status in bank systems. In this case after confirmation of order status change the merchant can make repeated request for status of order payment (steps 18-19).

After step 20 the on-line interaction between the store and the payment gate ends. Further operations on the payment completion (in case of two-step payment), payment cancellation and money return are performed in off-line mode.

The order life cycle is described in paragraph [Order life cycle \(AF\)](#).

4.2. Interaction scheme of the process not using 3-D Secure

System interaction in case of a non-3-D Secure card



Description:

1. The client places the order in the online shop of the merchant.
2. When the order is confirmed by the client, the merchant system registers the order in the payment gate. The following parameters are used for order registering: amount to be charged, currency of the expected payment, internal order number and URL for the client to return to after payment.
3. The payment gate responds with a unique identifier of the registered order and with a URL of the payment form that the user should be redirected to.
4. Merchant system redirects the client to the URL generated in the previous step.
5. Client's browser opens the URL.
6. As a result, the browser opens the payment form.
7. The client fills in the form and sends the data to the payment gate server.
8. The payment gate performs the payment after receiving of payment details.
9. When the payment is processed, the payment gate sends the return URL to the client's browser (specified by the merchant during the order registration).
10. Client's browser requests the payment results page from the merchant.
11. The merchant system requests the payment status from the payment gate using the order identifier assigned by the gate earlier. Note that payment state request (`getOrderStatus` or `getOrderStatusExtended`) is mandatory for implementation for all merchants.

12. The payment gate returns the payment status.
13. The merchant system sends page with the payment results to the client's browser.

If the Client does not return to the merchant page of payment results (to the Client's return URL) after 20 minutes allotted for a payment, the payment is considered to be a failure.

Under the request of the merchant the status of order payment can be changed manually by Bank employees after checking of transaction status in bank systems. In this case after confirmation of order status change the merchant can make repeated request for status of order payment (steps 11-12).

After step 20 the online interaction between the merchant and the payment gate ends. Further operations on the payment completion (in case of two-step payment), payment cancellation and money refund are performed in offline mode.

The order life cycle is described in paragraph [Order life cycle \(AF\)](#).

4.3. Scheme of implementation on the merchant's side

There are several automatic interactions between a merchant and the payment gate:

- 2, 3 in both schemes,
- 19, 20 in the first one,
- 11 and 12 in the second one.

These interactions are synchronous, i.e. requesting side must wait for a response or timeout to continue. Interactions are also unilateral: the merchant system sends requests to the payment gate, not the other way. To implement these interactions developers can use API provided by the payment gate, which consists of 2 requests:

1. Register order.
2. Get information about order status.

There are 2 versions of the API:

- Web-services implementation (SOAP);
- REST implementation.

Note: The client has limited time for payment - 20 minutes from order registration. Attempt to perform the payment after 20 minutes causes displaying of the error page.

5. Algorithm for connecting to the payment gate

1. Receive logins and passwords for the test server.
2. Design the payment page.
3. Upload archived payment page files to the test server.
4. Test the payment page:
 - using REST / Web-service interface
 - using form of order registering
 - using console.
5. Contact bank to ask for payment page verification. If the verification is successful, the bank will transfer the payment page to the production server.
6. Receive login and password pair (or pairs, for multiple users) for the production server.
7. Reconfigure the merchant's system for using the production server as the payment gate.
8. Try paying for an order with a real card (it's recommended to use both 3DS and SSL cards for testing to be thorough).
9. Reverse and refund these payments via the console.
10. Inform the bank about the start of commercial use of the gate. (Sign the act of internet shop readiness).

6. Web-service interface

Description (WSDL) of the service can be found on the test server that is available without restrictions. For the exact address see "Address data

for connections" section.

For successful authorization purposes each request should include login and password of the merchant that were produced during registration of the merchant. Values of the login and password are sent in the format described in the WS-Security specification, authorization type `UsernameToken`. Header for such authorization looks something like this:

```
<wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-%20wssecurity-utility-1.0.xsd">
  <wsse:UsernameToken wsu:Id="UsernameToken-87">
    <wsse:Username>aa</wsse:Username>
    <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordText">123456</wsse:Password>
  </wsse:UsernameToken>
</wsse:Security>
```

Requests for one- and two-phase schemes may differ. Requests for each scheme are described below.

If the Error code = 0, it means that the request is processed by the Payment gate without system errors. Error code does not show the status of the order.

To get the status of an order you should use the request `getOrderStatus` or `getOrderStatusExtended` (one of these methods must necessarily be implemented under TSP integration with payment gate).

6.1. One-phase payment requests

6.1.1. Order registration request

Use `registerOrder` method for order registration in the payment gate. The method is described in WSDL of the service.

Request parameters:

Name	Type	Mandatory	Description
merchantOrderNumber	AN..32	yes	Number (identifier) of the order in the merchant system. It is unique within the system
description	AN..512	no	Free-formed description of the order.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).
currency	N3	no	Code of the payment currency (according to ISO 4217). If it is not specified in the request, the default value is used - 810, russian rubles.
language	A2	no	Code of the language (according to ISO 639-1) that the payment page should be displayed in. If it is not specified, the system uses the default language from the merchant settings.
pageView	ANS..20	no	<p>This parameter indicates what type of payment interface pages should be uploaded for the payer. Possible values:</p> <ul style="list-style-type: none">• DESKTOP – to upload pages designed for displaying on PC monitors (pages with names <code>payment_<locale>.html</code> and <code>errors_<locale>.html</code> from archive of payment interface pages);• MOBILE – to upload pages designed for displaying on mobile devices (pages with names <code>mobile_payment_<locale>.html</code> and <code>mobile_errors_<locale>.html</code> from archive of payment interface pages);• If the merchant has pages with names formed by adding of some prefix to the template part of the page name, then you can specify necessary prefix in the <code>pageView</code> parameter in order to redirect client to the corresponding page. For example, if <code>pageView=iphone</code> then pages with names <code>iphone_payment_<locale>.html</code> and <code>iphone_error_<locale>.html</code> will be used. <p>Where:</p> <p> <code>locale</code> – the page language in 2-alpha code according to ISO 639-1, e.g. <code>ru</code> for Russian and <code>en</code> for English.</p> <p>Default value is <code>pageView=DESKTOP</code>.</p>

sessionTimeoutSecs	N...9	no	Duration of order life in seconds. If the parameter is not specified, then the value from merchant settings is used, otherwise - the default value (1200 seconds - 20 minutes). If the request contains <code>expirationDate</code> parameter, the parameter <code>sessionTimeoutSecs</code> is ignored.												
bindingId	AN..255	no	Identifier of the binding, that was created earlier. May be used only if the merchant has permission to work with bindings. If this parameter is sent in the request, that means: 1. This order may be payed only by binding; 2. The payer will be redirected to a payment page, where entering of CVC only is required.												
expirationDate	ANS	no	Date and time of termination of order life. Format: <code>yyyy-MM-dd'T'HH:mm:ss</code> . If this parameter is not specified, the <code>sessionTimeoutSecs</code> parameter is used to determine date and time of termination of order life.												
returnUrl	AN..512	yes	Web address that the client should be redirected after successful payment. Absolute link must be specified.												
failUrl	AN..512	no	Web address that the client should be redirected if the payment failed. Absolute link must be specified.												
params		no	An additional tag with the attributes for passing additional parameters of the merchant. Fields of additional informaiton to be stored. To send N parameters, the request must contain N <code>params</code> tags, where the <code>name</code> attribute contains parameter name and <code>value</code> attribute contains parameter value: <table border="1"><thead><tr><th>Name</th><th>Type</th><th>Mandatory</th><th>Description</th></tr></thead><tbody><tr><td><code>name</code></td><td>AN..20</td><td>yes</td><td>Name of the additional parameter</td></tr><tr><td><code>value</code></td><td>AN..1024</td><td>yes</td><td>Value of the additional parameter</td></tr></tbody></table> These fields may be passed to the bank processing for their representation in registers.* This functionality can be switched on during the integration period at the agreement with bank. If notification of the client is switched on for the merchant, this tag should contain parameter with name <code>email</code> which value is client's email.	Name	Type	Mandatory	Description	<code>name</code>	AN..20	yes	Name of the additional parameter	<code>value</code>	AN..1024	yes	Value of the additional parameter
Name	Type	Mandatory	Description												
<code>name</code>	AN..20	yes	Name of the additional parameter												
<code>value</code>	AN..1024	yes	Value of the additional parameter												
clientId	AN..255	no	Number of the client (identifier) in the merchant system. It is used to realise binding functionality. The request may contain this parameter only if the merchant is allowed to use bindings.												
merchantLogin	AN..255	no	To register the order from the name of the child merchant, specify its login in this parameter.												

* By default the following fields are passed to the bank processing:

- `orderNumber` – order number in the merchant system;
- `description` – order description (not more than 99 simbols, the following simbols are forbidden to use - %, +, \r, \n).

If additional parameter with name `merchantOrderId` is sent with the order, then its value will be passed to the bank processing as order number (instead of value of `orderNumber` field).

Response parameters:

Name	Type	Mandatory	Description
orderId	ANS36	no	Order number in the payment gate. It is unique within the gate. Absent if order registration failed (error is described by the <code>errorCode</code> parameter).
formUrl	AN..512	no	URL of the payment form that the client's browser should be redirected to. Absent if order registration failed (error is described by the <code>errorCode</code> parameter).
errorCode	N3	no	Code of the error that occurred during registration of the order.
errorMessage	AN..512	no	Description of the error in the language specified in the <code>language</code> parameter of the request.

Possible codes for errors (the `errorCode` field):

Value	Description
-------	-------------

0	No system error
1	Incorrect order number
1	Order with this number is already registered in the system
3	Unknown currency
4	Empty emount
4	Order number is empty
5	Invalid value of one of the parameters
5	Access denied
5	The user must change his password
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:registerOrder>
      <order merchantOrderNumber="78ds901234567890" description=" "
amount="15000" currency=" " language=" " pageView="DESKTOP"
sessionTimeoutSecs=" " bindingId=" " expirationDate="2014-09-08T14:14:14">
        <returnUrl>https://web.rbsuat.com/ab/finish.html</returnUrl>
        <params name="param1" value="valueParam1"/>
        <params name="param2" value="valueParam2"/>
        <clientId>666</clientId>
        <merchantLogin> </merchantLogin>
      </order>
    </mer:registerOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:registerOrderResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return orderId="05fcbc62-7ee6-4f1a-b3d5-6ca41a982283"
errorCode="0" errorMessage="Success">
        <formUrl>
https://web.rbsuat.com/ab/payment_ru.html?mdOrder=05fcbc62-7ee6-4f1a-b3d5-
6ca41a982283 </formUrl>
      </return>
    </ns1:registerOrderResponse>
  </soap:Body>
</soap:Envelope>

```

6.1.2. Order reversal request

To reverse an order use the `reverseOrder` request. This function is available for a limited period, that is specified by the Bank.

The reversal operation may be performed only once. If the reversal request caused an error, the next try will not be successful.

The reversal operation is available for merchants only under agreement with the Bank. To perform the reversal request a user must have an appropriate permission.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error message will be stated in this language.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error that occurred during reversal.
errorMessage	AN..512	no	Description of the error in the language specified in the Language field of the request.

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
5	Access denied
5	The user must change his password
5	[orderId] is empty
6	No such order

7	Reversal is impossible for current transaction state
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:reverseOrder>
      <order language="en"
orderId="f88a2bbf-2021-4ccc-8783-8a13068a89f9">
        <!--Zero or more repetitions:-->
        <params name=" " value=" "/>
      </order>
    </mer:reverseOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:reverseOrderResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="7" errorMessage="Reversal is impossible for
current transaction state"/>
    </ns1:reverseOrderResponse>
  </soap:Body>
</soap:Envelope>
```

6.1.3. Refund request

Use `refundOrder` request to refund deposited money.

This request returns money paid for the order back to the client. Request causes an error if the client is not charged. The payment gate allows multiple refunds, but their total amount cannot exceed the amount that was deposited from the client's account as a result of the order.

A user must have a corresponding permission in the system to perform this operation.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. It is unique within the gate.
refundAmount	N..5	yes	Refund amount in the order currency. May be less or equal to the current charged amount (which is lowered by previous refunds).

language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages will be stated in this language.
----------	----	----	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error that occurred in the process of the refund.
errorMessage	AN..512	no	Description of the error in the language specified in the Language field of the request.

Possible codes for errors (the errorCode field):

Value	Description
0	No system error
5	Access denied
5	The user must change his password
5	[orderId] is empty
5	Amount is invalid
6	No such order
7	Refund is impossible for current transaction state
7	Refund amount exceeds deposited amount
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:refundOrder>
      <order language=" "
orderId="4302d369-a5e8-4432-a5e5-42acfab52c86" refundAmount="20000">
        <!--Zero or more repetitions:-->
        <params name=" " value=" "/>
      </order>
    </mer:refundOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:refundOrderResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="7" errorMessage="Refund amount exceeds
deposited amount"/>
    </ns1:refundOrderResponse>
  </soap:Body>
</soap:Envelope>

```

6.1.4. Order status request

To inquire state of a registered order, use the `getOrderStatus` request.

The order status must be determined by the value of `orderStatus` parameter.
`authCode` field is deprecated.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order identifier in the payment gate. Unique within the gate.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages, if any, will be returned in this language.

Response parameters:

Name	Type	Mandatory	Description
orderStatus	N2	no	This paramater shows order status in the payment gate. Possible values are listed in the table below. Parameter is absent if no order with the specified ID was found.
errorCode	N3	no	Code of the error that occurred in the course of processing the request.
errorMessage	AN..512	no	Description of the error in the language specified in the Language field of the request.
orderNumber	AN..32	yes	Order number (identifier) in the merchant's system
pan	N..19	no	Masked number of the card that was used for payment. Specified only for paid orders.
expiration	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.
cardholderName	A..64	no	Cardholder name. Specified only for paid orders.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents)
currency	N3	no	Code of the payment's currency (according to ISO 4217).
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.
authCode	N3	no	This parameter is deprecated. Its value is always "2", regardless of the order status and processing system authorization code.
ip	AN..20	no	IP address of the computer that the order initiated on.
date	ANS	yes	Date of order registration
orderDescription	AN..512	yes	Order description that was sent during registration
actionCodeDescription	AN..512	yes	Description of action code the language specified in the Language field of the request.

clientId	AN..255	no	Number of the client (identifier) in the merchant's system. Transferred, when order is registered. Present only if creation of ligaments is allowed for merchant.
bindingId	AN..255	no	Identifier of the ligament created while paying an order or used to pay for. Present only if creation of ligaments is allowed for merchant.

The **orderStatus** field may have the following statuses:

State number	Description
0	The order is registered, but not paid yet.
1	Pre-authorisation amount was held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the issuer's ACS initiated
6	Authorization declined

Possible codes for errors (the **errorCode** field):

Value	Description
0	No system error.
1	Order with this number is already registered in the system.
2	Payment is declined
5	The user must change his password
5	Access denied
5	[orderId] is empty
6	Unknown order id
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:getOrderStatus>
      <order orderId="b1221b79-5703-42c9-a4b1-ed0d0f36493e"
language="en"/>
    </mer:getOrderStatus>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getOrderStatusResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return orderStatus="2" errorCode="0"
orderNumber="456789012345678" pan="411111**1111" expiration="201512"
cardholderName="Ivan" amount="15000" currency="810" approvalCode="123456"
authCode="2" ip="212.5.125.194" date="2013-09-03T16:48:52.459+04:00"
orderDescription=" " actionCodeDescription="Request processed successfully"
clientId="666" bindingId="df0b1801-a754-4576-b174-c2485d98bc9b"/>
    </ns1:getOrderStatusResponse>
  </soap:Body>
</soap:Envelope>
```

6.1.5. Extended order status request

To inquire about state of a registered order, use the `getOrderStatusExtended` request.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes*	Order identifier in the payment gate. Unique within the gate.
merchantOrderNumber	AN..32	yes*	Order number (identifier) in the merchant's system
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages, if any, will be returned in this language.

* It is necessary to specify whether `orderId` or `merchantOrderNumber` in the request. If the request contains both parameters, `orderId` is a priority.

There are 3 sets of response parameters. These sets depend on `getOrderStatusExtended` version, specified in merchant settings.

Response parameters for versions 01, 02, 03:

The following parameters are returned regardless `gerOrderStatusExtended` version.

Name	Type	Mandatory	Description
orderNumber	AN..32	yes	Order number (identifier) in the merchant's system
orderStatus	N2	no	State of the order in the payment gate. The value is selected from the list below. Absent if no order with the specified ID was found.
actionCode	N3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description on the language passed in the parameter Language"
errorCode	N3	no	Code of the error that occurred in the course of processing the request.
errorMessage	AN..512	no	Description of the error in the language specified in the Language field of the request.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents)
currency	N3	no	Code of the payment's currency (according to ISO 4217). If not specified, assumed to be 810 (Russian rubles).
date	ANS	yes	Date of order registration.
orderDescription	AN..512	no	Free-formed description of the order.

ip	AN..20	yes	IP address of the computer that the order initiated on.
<p>Element <i>merchantOrderParams</i> is present in the reponse if the order contains merchant additional parameters. Each additional parameter is described in separate element <i>merchantOrderParams</i> by the following fields:</p>			
name	AN..20	no	Name of additional parameter
value	AN..1024	no	Value of additional parameter
<p>Element <i>cardAuthInfo</i> – the structure includes element <i>secureAuthInfo</i> and the following attributes:</p>			
maskedPan	N..19	no	Masked number of the card that was used for payment. Specified only for paid orders.
expiration	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.
cardholderName	A..64	no	Cardholder name. Specified only for paid orders.
approvalCode	AN6	no	IPS authorization code. Specified only for paid orders. The field has fixed length of six characters, it can contain both numbers and letters.
<p>Element <i>secureAuthInfo</i> (includes element <i>eci</i> and element <i>threeDSInfo</i> with parameters <i>cavv</i> and <i>xid</i>):</p>			
eci	N..4	no	Electronic Commerce Indicator. Set just after the payment order in the case of a permit
cavv	ANS..200	no	Cardholder Authentication Verification Value. Set just after the payment order in the case of a permit.
xid	ANS..80	no	Electronic Commerce Transaction Identifier. Set just after the payment order in the case of a permit.
<p>Element <i>bindingInfo</i> consists of the following fields:</p>			
clientId	AN..255	no	Client number (ID) in the shop system, transferred during the order registration. Presents only if a shop is allowed to create bindings.
bindingId	AN..255	no	Binding identifier created during order payment or used for payment. Presents only if a shop is allowed to create bindings.

Response parameters for versions 02, 03:

If *getOrderStatusExtended* version is 02 or higher, the following parameters are also returned along with parameters described above.

Name	Type	Mandatory	Description
authDateTime	ANS	no	Authorisation date and time
authRefNum	AN..24	no	Reference number
terminalId	AN..10	no	Terminal Id

Response parameters for version 03:

If *getOrderStatusExtended* version is 03, the following parameters are also returned along with parameters described above.

Name	Type	Mandatory	Description
<p>Element <i>paymentAmountInfo</i> consists of the following parameters:</p>			
approvedAmount	N..20	no	Amount hold on the client's card (only for two-phase payments)
depositedAmount	N..20	no	Amount confirmed for deposit
refundedAmount	N..20	no	Refund amount
paymentState	N2	no	Payment state
<p>Element <i>bankInfo</i> consist of:</p>			

bankName	AN..200	no	Name of issuing bank
bankCountryCode	AN..4	no	Code of issuing bank country
bankCountryName	AN..160	no	Country of issuing bank in language specified in language parameter or in user language if language parameter is empty

The *orderStatus* field may have the following values:

State number	Description
0	The order is registered, but not paid yet.
1	Pre-authorisation amount was held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the issuer's ACS initiated.
6	Authorization declined

Possible codes for errors (the *errorCode* field):

Value	Description
0	No system error
1	Expected [orderId] or [orderNumber]
5	Access denied
5	The user must change his password
6	Order not found
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:getOrderStatusExtended>
      <order orderId="942e8534-ac73-4e3c-96c6-f6cc448018f7"
language="en">
        <!--Optional:-->
        <merchantOrderNumber> </merchantOrderNumber>
      </order>
    </mer:getOrderStatusExtended>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getOrderStatusExtendedResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return orderNumber="0s7a84sPe49Hdsddd0134567a0"
orderStatus="2" actionCode="0" actionCodeDescription="Request processed
successfully" amount="33000" currency="810"
date="2013-11-13T16:51:02.785+04:00" orderDescription=" " errorCode="0"
errorMessage="Success">
        <attributes name="mdOrder"
value="942e8534-ac73-4e3c-96c6-f6cc448018f7"/>
        <cardAuthInfo maskedPan="411111**1111" expiration="201512"
cardholderName="Ivan" approvalCode="123456"/>
        <authDateTime>2013-11-13T16:51:02.898+04:00</authDateTime>
        <terminalId>111113</terminalId>
        <authRefNum>111111111111</authRefNum>
        <paymentAmountInfo paymentState="DEPOSITED"
approvedAmount="33000" depositedAmount="33000" refundedAmount="0"/>
        <bankInfo bankName="TEST CARD" bankCountryCode="RU"
bankCountryName="Russian Federation"/>
      </return>
    </ns1:getOrderStatusExtendedResponse>
  </soap:Body>
</soap:Envelope>
```

6.1.6. 3DS enrolled verification request

To inquire about state of 3DS enrolled verification, use the verifyEnrollment request.

Request parameters:

Name	Type	Mandatory	Description
pan	N12...19	yes	Card number.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error.
errorMessage	AN..512	no	Description of the ErrorCode error.
isEnrolled	A1	no	3ds enrolled attribute. Available values: Y, N, U.
emitterName	AN..160	no	Name of the issuer bank
emitterCountryCode	AN..4	no	Country code of the issuer bank

Possible codes for errors (the errorCode field):

Value	Description
0	No system error
1	PAN not specified
1	PAN must be a number from 13 to 19 digits
5	Access denied
5	User must change his password
6	No info found for specified PAN
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:verifyEnrollment>
      <pan>4111111111111111</pan>
    </mer:verifyEnrollment>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:verifyEnrollmentResponse xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return isEnrolled="Y" emitterName="TEST CARD" emitterCountryCode="RU" errorCode="0"/>
    </ns1:verifyEnrollmentResponse>
  </soap:Body>
</soap:Envelope>
```

6.1.7. Request for additional parameters adding

To add new additional parameters to an order use addParams request.

If there is an additional parameter in the order and a parameter with the same name is going to be added, the latest passed value of the parameter will be saved in the order.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. It is unique within the gate.
Tag of additional parameters - params:			
name	AN..20	yes	Name of the additional parameter
value	AN..1024	yes	Value of the additional parameter

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	yes	Code of the error.
errorMessage	AN..512	no	Description of the error. Is absent if the request is successful.

Possible codes for errors (the errorCode field):

Value	Description
0	No system error
5	Access denied
5	User must change his password
6	orderId is not specified
6	Order not found
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:addParams>
      <request orderId="02988563-0cc4-4109-84ed-15781f0d718e">
        <!--Zero or more repetitions:-->
        <params name="Param1" value="Param1"/>
        <params name="Param2" value="Param2"/>
      </request>
    </mer:addParams>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:addParamsResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0"/>
    </ns1:addParamsResponse>
  </soap:Body>
</soap:Envelope>
```

6.1.8. Payment statistics for a specified period

`getLastOrdersForMerchants` method allows you to obtain statistics on payments for a certain period.

Request parameters:

Name	Type	Mandatory	Description
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages, if any, will be returned in this language.
page	N	no	The result of the request processing is a report divided into pages (each page contains <code>size</code> records). The response will return a page at number specified in this parameter. Page numbering starts at 0. If <code>page</code> parameter is not specified in the request, the response will return page number 0.
size	N..3	yes	Number of records on one page (maximum value is 200).
from	ANS	yes	Date and time of the report period beginning. Format is YYYY-MM-DDTHH:mm:ss
to	ANS	yes	Date and time of the report period end. Format is YYYY-MM-DDTHH:mm:ss
transactionStates	A..9	yes	This block is designed to specify order states you need to be included into the report. Possible values: CREATED, APPROVED, DEPOSITED, DECLINED, REVERSED, REFUNDED.
merchants	ANS	yes	List of merchant Logins. Only transactions of specified merchants will be included into the report. Leave this block empty to receive transactions of all available merchants (which includes child merchants and merchants specified as viewable in user settings).
searchByCreatedDate	boolean	no	Possible values: <ul style="list-style-type: none">• <code>true</code> – search for orders by date of order creation.• <code>false</code> – search for orders by date of <u>payment</u> (thus orders in state <code>CREATED</code> и <code>DECLINED</code> can not be present in the report). Default value – <code>false</code> .

Response parameters:

Name	Type	Mandatory	Description
errorCode	N..2	yes	Code of the error that occurred in the course of the report processing. Description of possible codes is represented in the table below - "Possible codes for errors (the <code>errorCode</code> field)".
errorMessage	AN..512	no	Description of the error. Present only in case of error (<code>errorCode</code> is not 0).
orderStatuses			Blocks containing data on orders in the report. See the table below - "Parameters of <code>orderStatuses</code> tags".
totalCount	N	yes	Total account of orders in the report (on all pages).
page	N	yes	The number of the current page (it is equal to the <code>page</code> parameter, transferred in the request).
pageSize	N..3	yes	Maximum number of orders on one page of the report (it is equal to the <code>size</code> parameter, transferred in the request).

Parameters of `orderStatuses` tags:

Name	Type	Mandatory	Description
orderNumber	AN..32	yes	Order number (identifier) in the merchant's system
orderStatus	N..2	yes	State of the order in the payment gate. The value is selected from the list below. Possible values are represented in the table below - "The <code>orderStatus</code> field".
actionCode	N..3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description in the language specified in the parameter <code>language</code> of the request.
amount	N..20	yes	Order amount in minimal currency units.
currency	N3	yes	Code of the payment's currency (according to ISO 4217). If not specified, assumed to be default currency.
date	ANS	yes	Date of order registration.
orderDescription	AN..512	no	Free-formed description of the order from the order registration request.
ip	AN..20	no	IP address of the payer.

errorCode	N..2	yes	Error code.
merchantOrderParams		no	Tag with attributes, used to pass merchant additional parameters. See the table below - "Parameters of merchantOrderParams tag".
attributes		yes	Order attributes in the payment system (order number). See the table below - "Parameters of attributes tag".
cardAuthInfo		no	Tag with payment attributes. See the table below - "Параметры блока cardAuthInfo".
bindingInfo		no	Tag with information on binding used for payment. See the table below - "Parameters of bindingInfo tag".
authDateTime	ANS	no	Date and time of payment authorization.
terminalId	AN..10	no	Terminal ID.
authRefNum	AN..24	no	Reference number.
paymentAmountInfo		no	Tag with information on approved amount, deposited amount and refund. See the table below - "Parameters of paymentAmountInfo tag".
bankInfo		no	Tag with information on Issuing Bank. See the table below - "Parameters of bankInfo tag".

Parameters of merchantOrderParams tag:

Name	Type	Mandatory	Description
name	AN..20	yes	Name of the merchant additional parameter.
value	AN..1024	yes	Value of the merchant additional parameter.

Parameters of attributes tag:

Name	Type	Mandatory	Description
name	A7	yes	Attribute name - "mdOrder".
value	ANS36	yes	Attribute value - order identifier in the payment system (unique in the system).

Parameters of cardAuthInfo tag:

Name	Type	Mandatory	Description
maskedPan	N..19	no	Masked number of the card that was used for payment.
expiration	N6	no	Card expiration date in the YYYYMM format.
cardholderName	A..64	no	Cardholder name.
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.

Parameters of bindingInfo tag:

Name	Type	Mandatory	Description
clientId	AN..255	no	Client number (ID) in the merchant system.
bindingId	AN..255	no	Identifier of the binding used for payment.

Parameters of paymentAmountInfo tag:

Name	Type	Mandatory	Description
paymentState	N..9	no	Payment state.
approvedAmount	N..20	no	Amount confirmed for deposit.
depositedAmount	N..20	no	Deposited amount.

refundedAmount	N..20	no	Refund amount.
----------------	-------	----	----------------

Parameters of `bankInfo` tag:

Name	Type	Mandatory	Description
bankName	AN..200	no	Name of the Issuing Bank .
bankCountryCode	AN..4	no	Code of the Issuing Bank country.
bankCountryName	AN..160	no	Country of the Issuing Bank in language specified in <code>language</code> parameter or in user language if <code>language</code> parameter is empty.

The `orderStatus` field may have the following statuses:

Value	Description
0	The order is registered, but it is not paid yet.
1	Pre-authorisation amount is held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the Issuer's ACS initiated.
6	Authorization declined

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
5	Mandatory field is empty
5	Value of <code>transactionStates</code> parameter is invalid
7	System error
10	Parameter size exceeds maximum value
10	Unsuccessful rights to view transactions of specified merchant.

Request example:


```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:getLastOrdersForMerchants>
      <request language="en">
        <page>0</page>
        <size>200</size>
        <!-- Optional: -->
        <from>2014-09-10T00:00:00</from>
        <!-- Optional: -->
        <to>2014-11-11T00:00:00</to>
        <!-- Optional: -->
        <transactionStates>
          <!-- Zero or more repetitions: -->
          <transactionStates>DEPOSITED</transactionStates>
        </transactionStates>
        <!-- Optional: -->
        <merchants>
          <!-- Zero or more repetitions: -->
          <merchants>MerchantLogin</merchants>
          <searchByCreatedDate>>false</searchByCreatedDate>
        </merchants>
      </request>
    </mer:getLastOrdersForMerchants>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getLastOrdersForMerchantsResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0">
        <orderStatuses orderNumber="58drs0Pes459Hdsddd0567a0"
orderStatus="2" actionCode="0" actionCodeDescription="Request processed
successfully" amount="250000" currency="810"
date="2014-10-28T12:40:49.233+04:00" orderDescription="Opisanie"
ip="212.5.125.194" errorCode="0">
          <merchantOrderParams name="registr1" value="registr1"/>
          <attributes name="mdOrder"
value="fla3365b-542c-4c8d-b34c-e9a7ee8dbc9c"/>
          <cardAuthInfo maskedPan="411111**1111" expiration="201512"
cardholderName="Ivan" approvalCode="123456"/>
          <bindingInfo clientId="666"
bindingId="1eabfb8e-b90e-4dc8-bef6-14bd392b1cec"/>
          <authDateTime>2014-10-28T12:41:01.207+04:00</authDateTime>
          <terminalId>111113</terminalId>
          <authRefNum>111111111111</authRefNum>
          <paymentAmountInfo paymentState="DEPOSITED"
approvedAmount="250000" depositedAmount="250000" refundedAmount="0"/>
          <bankInfo bankName="TEST CARD" bankCountryCode="RU"
bankCountryName="Russian Federation"/>
        </orderStatuses>
        <orderStatuses orderNumber="57drs0Pes459Hdsddd0567a0"
orderStatus="2" actionCode="0" actionCodeDescription="Request processed
successfully" amount="250000" currency="810"
date="2014-10-28T12:34:37.286+04:00" orderDescription="Opisanie"
ip="212.5.125.194" errorCode="0">
          <merchantOrderParams name="registr1" value="registr1"/>
          <attributes name="mdOrder"
value="09489184-bc5e-44a7-b6c4-3ca1feb8ef69"/>
          <cardAuthInfo maskedPan="411111**1111" expiration="201512"
cardholderName="Ivan" approvalCode="123456"/>
          <bindingInfo clientId="666"
bindingId="1eabfb8e-b90e-4dc8-bef6-14bd392b1cec"/>
          <authDateTime>2014-10-28T12:34:56.046+04:00</authDateTime>
          <terminalId>111113</terminalId>
          <authRefNum>111111111111</authRefNum>
          <paymentAmountInfo paymentState="DEPOSITED"
approvedAmount="250000" depositedAmount="250000" refundedAmount="0"/>
          <bankInfo bankName="TEST CARD" bankCountryCode="RU"
bankCountryName="Russian Federation"/>
        </orderStatuses>
        <totalCount>2</totalCount>
        <page>0</page>
        <pageSize>200</pageSize>
      </return>
    </ns1:getLastOrdersForMerchantsResponse>
  </soap:Body>
</soap:Envelope>
```

6.1.9. Request to add a card number to the list of SSL-cards

The `updateSSLCardList` request allows merchant to add a number of a card used for payment to "SSL PAN list".

This method is available for merchant only at the agreement with the bank. In order to use this method the user must have access rights to work with fraud lists.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.

Параметры ответа:

Название	Тип	Обязательно	Описание
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error in the user default language.

Error codes (values of the `errorCode` field):

Value	Description
0	No system error
1	Access denied
2	The user must change his password
3	[mdorder] is not specified
4	There is no payment in the system or [mdorder] is incorrect
6	The card number is already present in the list
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:updateSSLCardList>
      <mdorder>e40927ef-6fa2-43f3-bf97-f1f2bc61d4fd</mdorder>
    </mer:updateSSLCardList>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:updateSSLCardListResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0" errorMessage="Request processing took place
without system errors"/>
    </ns1:updateSSLCardListResponse>
  </soap:Body>
</soap:Envelope>
```

6.2. Two-phase payment requests

6.2.1. Order preauthorization request

Order preauthorization request is called `registerOrderPreAuth`. It is used for registering an order with preauthorization.

Request parameters:

Name	Type	Mandatory	Description
merchantOrderNumber	AN..32	yes	Number (identifier) of the order in the merchant system. It is unique within the system
description	AN..512	no	Free-formed description of the order.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).
currency	N3	no	Code of the payment currency (according to ISO 4217). If it is not specified in the request, the default value is used - 810, russian rubles.
language	A2	no	Code of the language (according to ISO 639-1) that the payment page should be displayed in. If it is not specified, the system uses the default language from the merchant settings.
pageView	ANS..20	no	<p>This parameter indicates what type of payment interface pages should be uploaded for the payer. Possible values:</p> <ul style="list-style-type: none">• DESKTOP – to upload pages designed for displaying on PC monitors (pages with names <code>payment_<locale>.html</code> and <code>errors_<locale>.html</code> from archive of payment interface pages);• MOBILE – to upload pages designed for displaying on mobile devices (pages with names <code>mobile_payment_<locale>.html</code> and <code>mobile_errors_<locale>.html</code> from archive of payment interface pages);• If the merchant has pages with names formed by adding of some prefix to the template part of the page name, then you can specify necessary prefix in the <code>pageView</code> parameter in order to redirect client to the corresponding page. For example, if <code>pageView=iphone</code> then pages with names <code>iphone_payment_<locale>.html</code> and <code>iphone_error_<locale>.html</code> will be used. <p>Where:</p> <p>locale – the page language in 2-alpha code according to ISO 639-1, e.g. <code>ru</code> for Russian and <code>en</code> for English.</p> <p>Default value is <code>pageView=DESKTOP</code>.</p>
sessionTimeoutSecs	N...9	no	<p>Duration of order life in seconds.</p> <p>If the parameter is not specified, then the value from merchant settings is used, otherwise - the default value (1200 seconds - 20 minutes).</p> <p>If the request contains <code>expirationDate</code> parameter, the parameter the <code>sessionTimeoutSecs</code> is ignored.</p>

bindingId	AN..255	no	<p>Identifier of the binding, that was created earlier. May be used only if the merchant has permission to work with bindings. If this parameter is sent in the request, that means:</p> <ol style="list-style-type: none"> 1. This order may be payed only by binding; 2. The payer will be redirected to a payment page, where entering of CVC only is required. 												
expirationDate	ANS	no	<p>Date and time of termination of order life. Format: yyyy-MM-dd 'T' HH:mm:ss.</p> <p>If this parameter is not specified, the <code>sessionTimeoutSecs</code> parameter is used to determine date and time of termination of order life.</p>												
returnUrl	AN..512	yes	Web address that the client should be redirected after successful payment. Absolute link must be specified.												
failUrl	AN..512	no	Web address that the client should be redirected if the payment failed. Absolute link must be specified.												
params		no	<p>An additional tag with the attributes for passing additional parameters of the merchant.</p> <p>Fields of additional informaiton to be stored. To send N parameters, the request must contain N <code>params</code> tags , where the <code>name</code> attribute contains parameter name and <code>value</code> attribute contains parameter value:</p> <table border="1"> <thead> <tr> <th>Name</th><th>Type</th><th>Mandatory</th><th>Description</th></tr> </thead> <tbody> <tr> <td>name</td><td>AN..20</td><td>yes</td><td>Name of the additional parameter</td></tr> <tr> <td>value</td><td>AN..1024</td><td>yes</td><td>Value of the additional parameter</td></tr> </tbody> </table> <p>These fields may be passed to the bank processing for their representation in registers.*</p> <p>This functionality can be switched on during the integration period at the agreement with bank.</p> <p>If notification of the client is switched on for the merchant, this tag should contain parameter with name <code>email</code> which value is client's email.</p>	Name	Type	Mandatory	Description	name	AN..20	yes	Name of the additional parameter	value	AN..1024	yes	Value of the additional parameter
Name	Type	Mandatory	Description												
name	AN..20	yes	Name of the additional parameter												
value	AN..1024	yes	Value of the additional parameter												
clientId	AN..255	no	Number of the client (identifier) in the merchant system. It is used to realise binding functionality. The request may contain this parameter only if the merchant is allowed to use bindings.												
merchantLogin	AN..255	no	To register the order from the name of the child merchant, specify its login in this parameter.												

* By default the following fields are passed to the bank processing:

- `orderNumber` – order number in the merchant system;
- `description` – order description (not more than 99 simbols, the following simbols are forbidden to use - %, +, \r, \n).

If additional parameter with name `merchantOrderId` is sent with the order, then its value will be passed to the bank processing as order number (instead of value of `orderNumber` field).

Response parameters:

Name	Type	Mandatory	Description
orderId	ANS36	no	Order number in the payment gate. It is unique within the gate. Absent if order registration failed (error is described by the <code>errorCode</code> parameter).
formUrl	AN..512	no	URL of the payment form that the client's browser should be redirected to. Absent if order registration failed (error is described by the <code>errorCode</code> parameter).
errorCode	N3	no	Code of the error that occurred during registration of the order.
errorMessage	AN..512	no	Description of the error in the language specified in the <code>language</code> parameter of the request.

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error

1	Order number is invalid
1	Order with this number is already registered in the system
3	Unknown currency
4	Empty amount
4	Empty return URL
4	Order number is empty
5	Invalid value of one of the parameters
5	Access denied
5	The user must change his password
5	Pre-authorization payment is restricted
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:registerOrderPreAuth>
      <order merchantOrderNumber="asuaakdfadsfasdfasdd5" description="
" amount="10000" currency=" " language="ru" pageView="MOBILE"
sessionTimeoutSecs=" " bindingId=" " expirationDate="2014-09-08T14:14:14">
        <returnUrl>https://web.rbsuat.com/ab/finish.html</returnUrl>
        <params name="param1" value="paramValue1"/>
        <params name="param2" value="paramValue2"/>
        <clientId>7777</clientId>
      </order>
    </mer:registerOrderPreAuth>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:registerOrderPreAuthResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return orderId="5e5dc6bd-dee3-4c96-849a-09f3f575f4b6"
errorCode="0" errorMessage="Success">
        <formUrl>
https://web.rbsuat.com/ab/mobile_payment_ru.html?mdOrder=5e5dc6bd-dee3-4c9
6-849a-09f3f575f4b6 </formUrl>
        </return>
      </ns1:registerOrderPreAuthResponse>
    </soap:Body>
  </soap:Envelope>

```

6.2.2. Request for completion of a preauthorized order

To deposit payment for a preauthorized order use the `depositOrder` request. This request is not available by default.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
depositAmount	N..5	yes	Deposit amount in the order currency. Can be less or equal to the preauthorized amount. Cannot be less than 1 standard currency unit (e.g. 1 euro, currency used depends on the system configuration).
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error message will be returned in this language.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error that occurred during deposit.
errorMessage	AN..512	no	Description of the error in the language specified by the Language parameter of the request.

Attention!!! If you specify zero in "DepositAmount" parameter, completion occurs for the entire pre-authorized amount.

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
5	deposited amount is exceeding approved amount
5	deposit amount must be at least 1 ruble or equal to zero
5	Access denied
5	The user must change his password

6	No such order
6	[orderId] is empty
7	Payment must be in approved state
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:depositOrder>
      <order language="ru" orderId="4302d369-a5e8-4432-a5e5-42acfab52c86" depositAmount="30000">
        <!-- Zero or more repetitions -->
        <params name="?" value="?" />
      </order>
    </mer:depositOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:depositOrderResponse xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="6" errorMessage="No such order" />
    </ns1:depositOrderResponse>
  </soap:Body>
</soap:Envelope>
```

6.2.3. Order reversal request

To reverse an order use the `reverseOrder` request. This function is available for a limited period, that is specified by the Bank.

The reversal operation may be performed only once. If the reversal request caused an error, the next try will not be successful.

The reversal operation is available for merchants only under agreement with the Bank. To perform the reversal request a user must have an appropriate permission.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error message will be stated in this language.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error that occurred during reversal.

errorMessage	AN..512	no	Description of the error in the language specified in the Language field of the request.
--------------	---------	----	------------------------------------------------------------------------------------------

Possible codes for errors (the errorCode field):

Value	Description
0	No system error
5	Access denied
5	The user must change his password
5	[orderId] is empty
6	No such order
7	Reversal is impossible for current transaction state
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:reverseOrder>
      <order language="en"
orderId="f88a2bbf-2021-4ccc-8783-8a13068a89f9">
        <!--Zero or more repetitions:-->
        <params name=" " value=" " />
      </order>
    </mer:reverseOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:reverseOrderResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="7" errorMessage="Reversal is impossible for
current transaction state"/>
    </ns1:reverseOrderResponse>
  </soap:Body>
</soap:Envelope>
```

6.2.4. Refund request

Use `refundOrder` request to refund deposited money.

This request returns money paid for the order back to the client. Request causes an error if the client is not charged. The payment gate allows multiple refunds, but their total amount cannot exceed the amount that was deposited from the client's account as a result of the order.

A user must have a corresponding permission in the system to perform this operation.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. It is unique within the gate.
refundAmount	N..5	yes	Refund amount in the order currency. May be less or equal to the current charged amount (which is lowered by previous refunds).
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages will be stated in this language.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error that occurred in the process of the refund.
errorMessage	AN..512	no	Description of the error in the language specified in the Language field of the request.

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
5	Access denied
5	The user must change his password
5	[orderId] is empty
5	Amount is invalid
6	No such order
7	Refund is impossible for current transaction state
7	Refund amount exceeds deposited amount
7	System error

Request example:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:refundOrder>
      <order language=" "
orderId="4302d369-a5e8-4432-a5e5-42acfab52c86" refundAmount="20000">
        <!--Zero or more repetitions:-->
        <params name=" " value=" "/>
      </order>
    </mer:refundOrder>
  </soapenv:Body>
</soapenv:Envelope>

```

Response example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:refundOrderResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="7" errorMessage="Refund amount exceeds
deposited amount"/>
    </ns1:refundOrderResponse>
  </soap:Body>
</soap:Envelope>

```

6.2.5. Order status request

To inquire state of a registered order, use the `getOrderStatus` request.

The order status must be determined by the value of `orderStatus` parameter.
`authCode` field is deprecated.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order identifier in the payment gate. Unique within the gate.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages, if any, will be returned in this language.

Response parameters:

Name	Type	Mandatory	Description
------	------	-----------	-------------

orderStatus	N2	no	This parameter shows order status in the payment gate. Possible values are listed in the table below. Parameter is absent if no order with the specified ID was found.
errorCode	N3	no	Code of the error that occurred in the course of processing the request.
errorMessage	AN..512	no	Description of the error in the language specified in the Language field of the request.
orderNumber	AN..32	yes	Order number (identifier) in the merchant's system
pan	N..19	no	Masked number of the card that was used for payment. Specified only for paid orders.
expiration	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.
cardholderName	A..64	no	Cardholder name. Specified only for paid orders.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents)
currency	N3	no	Code of the payment's currency (according to ISO 4217).
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.
authCode	N3	no	This parameter is deprecated. Its value is always "2", regardless of the order status and processing system authorization code.
ip	AN..20	no	IP address of the computer that the order initiated on.
date	ANS	yes	Date of order registration
orderDescription	AN..512	yes	Order description that was sent during registration
actionCodeDescription	AN..512	yes	Description of action code the language specified in the Language field of the request.
clientId	AN..255	no	Number of the client (identifier) in the merchant's system. Transferred, when order is registered. Present only if creation of ligaments is allowed for merchant.
bindingId	AN..255	no	Identifier of the ligament created while paying an order or used to pay for. Present only if creation of ligaments is allowed for merchant.

The **orderStatus** field may have the following statuses:

State number	Description
0	The order is registered, but not paid yet.
1	Pre-authorisation amount was held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the issuer's ACS initiated
6	Authorization declined

Possible codes for errors (the **errorCode** field):

Value	Description
0	No system error.
1	Order with this number is already registered in the system.
2	Payment is declined
5	The user must change his password
5	Access denied
5	[orderId] is empty
6	Unknown order id

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:getOrderStatus>
      <order orderId="b1221b79-5703-42c9-a4b1-ed0d0f36493e"
language="en"/>
    </mer:getOrderStatus>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getOrderStatusResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return orderStatus="2" errorCode="0"
orderNumber="456789012345678" pan="411111**1111" expiration="201512"
cardholderName="Ivan" amount="15000" currency="810" approvalCode="123456"
authCode="2" ip="212.5.125.194" date="2013-09-03T16:48:52.459+04:00"
orderDescription=" " actionCodeDescription="Request processed successfully"
clientId="666" bindingId="df0b1801-a754-4576-b174-c2485d98bc9b"/>
    </ns1:getOrderStatusResponse>
  </soap:Body>
</soap:Envelope>
```

6.2.6. Extended order status request

To inquire about state of a registered order, use the `getOrderStatusExtended` request.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes*	Order identifier in the payment gate. Unique within the gate.
merchantOrderNumber	AN..32	yes*	Order number (identifier) in the merchant's system
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages, if any, will be returned in this language.

* It is necessary to specify whether `orderId` or `merchantOrderNumber` in the request. If the request contains both parameters, `orderId` is a priority.

There are 3 sets of response parameters. These sets depend on `getOrderStatusExtended` version, specified in merchant settings.

Response parameters for versions 01, 02, 03:

The following parameters are returned regardless `getOrderStatusExtended` version.

Name	Type	Mandatory	Description
orderNumber	AN..32	yes	Order number (identifier) in the merchant's system
orderStatus	N2	no	State of the order in the payment gate. The value is selected from the list below. Absent if no order with the specified ID was found.
actionCode	N3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description on the language passed in the parameter Language"
errorCode	N3	no	Code of the error that occurred in the course of processing the request.
errorMessage	AN..512	no	Description of the error in the language specified in the Language field of the request.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents)
currency	N3	no	Code of the payment's currency (according to ISO 4217). If not specified, assumed to be 810 (Russian rubles).
date	ANS	yes	Date of order registration.
orderDescription	AN..512	no	Free-formed description of the order.
ip	AN..20	yes	IP address of the computer that the order initiated on.

Element `merchantOrderParams` is present in the response if the order contains merchant additional parameters. Each additional parameter is described in separate element `merchantOrderParams` by the following fields:

name	AN..20	no	Name of additional parameter
value	AN..1024	no	Value of additional parameter

Element `cardAuthInfo` – the structure includes element `secureAuthInfo` and the following attributes:

maskedPan	N..19	no	Masked number of the card that was used for payment. Specified only for paid orders.
expiration	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.
cardholderName	A..64	no	Cardholder name. Specified only for paid orders.
approvalCode	AN6	no	IPS authorization code. Specified only for paid orders. The field has fixed length of six characters, it can contain both numbers and letters.

Element `secureAuthInfo` (includes element `eci` and element `threeDSInfo` with parameters `cavv` and `xid`):

eci	N..4	no	Electronic Commerce Indicator. Set just after the payment order in the case of a permit
cavv	ANS..200	no	Cardholder Authentication Verification Value. Set just after the payment order in the case of a permit.
xid	ANS..80	no	Electronic Commerce Transaction Identifier. Set just after the payment order in the case of a permit.

Element `bindingInfo` consists of the following fields:

clientId	AN..255	no	Client number (ID) in the shop system, transferred during the order registration. Presents only if a shop is allowed to create bindings.
bindingId	AN..255	no	Binding identifier created during order payment or used for payment. Presents only if a shop is allowed to create bindings.

Response parameters for versions 02, 03:

If `getOrderStatusExtended` version is 02 or higher, the following parameters are also returned along with parameters described above.

Name	Type	Mandatory	Description
------	------	-----------	-------------

authDateTime	ANS	no	Authorisation date and time
authRefNum	AN..24	no	Reference number
terminalId	AN..10	no	Terminal Id

Response parameters for version 03:

If *getOrderStatusExtended* version is 03, the following parameters are also returned along with parameters described above.

Name	Type	Mandatory	Description
Element <i>paymentAmountInfo</i> consists of the following parameters:			
approvedAmount	N..20	no	Amount hold on the client's card (only for two-phase payments)
depositedAmount	N..20	no	Amount confirmed for deposit
refundedAmount	N..20	no	Refund amount
paymentState	N2	no	Payment state
Element <i>bankInfo</i> consist of:			
bankName	AN..200	no	Name of issuing bank
bankCountryCode	AN..4	no	Code of issuing bank country
bankCountryName	AN..160	no	Country of issuing bank in language specified in language parameter or in user language if language parameter is empty

The *orderStatus* field may have the following values:

State number	Description
0	The order is registered, but not paid yet.
1	Pre-authorisation amount was held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the issuer's ACS initiated.
6	Authorization declined

Possible codes for errors (the *errorCode* field):

Value	Description
0	No system error
1	Expected [orderId] or [orderNumber]
5	Access denied
5	The user must change his password
6	Order not found
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:getOrderStatusExtended>
      <order orderId="942e8534-ac73-4e3c-96c6-f6cc448018f7"
language="en">
        <!--Optional:-->
        <merchantOrderNumber> </merchantOrderNumber>
      </order>
    </mer:getOrderStatusExtended>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getOrderStatusExtendedResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return orderId="942e8534-ac73-4e3c-96c6-f6cc448018f7"
orderStatus="2" actionCode="0" actionCodeDescription="Request processed
successfully" amount="33000" currency="810"
date="2013-11-13T16:51:02.785+04:00" orderDescription=" " errorCode="0"
errorMessage="Success">
        <attributes name="mdOrder"
value="942e8534-ac73-4e3c-96c6-f6cc448018f7"/>
        <cardAuthInfo maskedPan="411111**1111" expiration="201512"
cardholderName="Ivan" approvalCode="123456"/>
        <authDateTime>2013-11-13T16:51:02.898+04:00</authDateTime>
        <terminalId>111113</terminalId>
        <authRefNum>111111111111</authRefNum>
        <paymentAmountInfo paymentState="DEPOSITED"
approvedAmount="33000" depositedAmount="33000" refundedAmount="0"/>
        <bankInfo bankName="TEST CARD" bankCountryCode="RU"
bankCountryName="Russian Federation"/>
      </return>
    </ns1:getOrderStatusExtendedResponse>
  </soap:Body>
</soap:Envelope>
```

6.2.7. 3DS enrolled verification request

To inquire about state of 3DS enrolled verification, use the verifyEnrollment request.

Request parameters:

Name	Type	Mandatory	Description
pan	N12...19	yes	Card number.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error.
errorMessage	AN..512	no	Description of the ErrorCode error.
isEnrolled	A1	no	3ds enrolled attribute. Available values: Y, N, U.
emitterName	AN..160	no	Name of the issuer bank
emitterCountryCode	AN..4	no	Country code of the issuer bank

Possible codes for errors (the errorCode field):

Value	Description
0	No system error
1	PAN not specified
1	PAN must be a number from 13 to 19 digits
5	Access denied
5	User must change his password
6	No info found for specified PAN
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:verifyEnrollment>
      <pan>4111111111111111</pan>
    </mer:verifyEnrollment>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:verifyEnrollmentResponse xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return isEnrolled="Y" emitterName="TEST CARD" emitterCountryCode="RU" errorCode="0"/>
    </ns1:verifyEnrollmentResponse>
  </soap:Body>
</soap:Envelope>
```

6.2.8. Request for additional parameters adding

To add new additional parameters to an order use addParams request.

If there is an additional parameter in the order and a parameter with the same name is going to be added, the latest passed value of the parameter will be saved in the order.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. It is unique within the gate.
Tag of additional parameters - params:			
name	AN..20	yes	Name of the additional parameter
value	AN..1024	yes	Value of the additional parameter

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	yes	Code of the error.
errorMessage	AN..512	no	Description of the error. Is absent if the request is successful.

Possible codes for errors (the errorCode field):

Value	Description
0	No system error
5	Access denied
5	User must change his password
6	orderId is not specified
6	Incorrect orderId format
7	System error

Request example:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:addParams>
      <request orderId="02988563-0cc4-4109-84ed-15781f0d718e">
        <!--Zero or more repetitions:-->
        <params name="Param1" value="Param1"/>
        <params name="Param2" value="Param2"/>
      </request>
    </mer:addParams>
  </soapenv:Body>
</soapenv:Envelope>

```

Response example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:addParamsResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0"/>
    </ns1:addParamsResponse>
  </soap:Body>
</soap:Envelope>

```

6.2.9. Payment statistics for a specified period

`getLastOrdersForMerchants` method allows you to obtain statistics on payments for a certain period.

Request parameters:

Name	Type	Mandatory	Description
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages, if any, will be returned in this language.
page	N	no	The result of the request processing is a report divided into pages (each page contains <code>size</code> records). The response will return a page at number specified in this parameter. Page numbering starts at 0. If <code>page</code> parameter is not specified in the request, the response will return page number 0.
size	N..3	yes	Number of records on one page (maximum value is 200).
from	ANS	yes	Date and time of the report period beginning. Format is YYYY-MM-DDTHH:mm:ss
to	ANS	yes	Date and time of the report period end. Format is YYYY-MM-DDTHH:mm:ss
transactionStates	A..9	yes	This block is designed to specify order states you need to be included into the report. Possible values: CREATED, APPROVED, DEPOSITED, DECLINED, REVERSED, REFUNDED.
merchants	ANS	yes	List of merchant Logins. Only transactions of specified merchants will be included into the report. Leave this block empty to receive transactions of all available merchants (which includes child merchants and merchants specified as viewable in user settings).

searchByCreatedDate	boolean	no	Possible values: <ul style="list-style-type: none"> • <code>true</code> – search for orders by date of order creation. • <code>false</code> – search for orders by date of <u>payment</u> (thus orders in state <code>CREATED</code> и <code>DECLINED</code> can not be present in the report). Default value – <code>false</code> .
---------------------	---------	----	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Response parameters:

Name	Type	Mandatory	Description
errorCode	N..2	yes	Code of the error that occurred in the course of the report processing. Description of possible codes is represented in the table below - "Possible codes for errors (the <code>errorCode</code> field)".
errorMessage	AN..512	no	Description of the error. Present only in case of error (<code>errorCode</code> is not 0).
orderStatuses			Blocks containing data on orders in the report. See the table below - "Parameters of <code>orderStatuses</code> tags".
totalCount	N	yes	Total account of orders in the report (on all pages).
page	N	yes	The number of the current page (it is equal to the <code>page</code> parameter, transferred in the request).
pageSize	N..3	yes	Maximum number of orders on one page of the report (it is equal to the <code>size</code> parameter, transferred in the request).

Parameters of `orderStatuses` tags:

Name	Type	Mandatory	Description
orderNumber	AN..32	yes	Order number (identifier) in the merchant's system
orderStatus	N..2	yes	State of the order in the payment gate. The value is selected from the list below. Possible values are represented in the table below - "The <code>orderStatus</code> field".
actionCode	N..3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description in the language specified in the parameter <code>language</code> of the request.
amount	N..20	yes	Order amount in minimal currency units.
currency	N3	yes	Code of the payment's currency (according to ISO 4217). If not specified, assumed to be default currency.
date	ANS	yes	Date of order registration.
orderDescription	AN..512	no	Free-formed description of the order from the order registration request.
ip	AN..20	no	IP address of the payer.
errorCode	N..2	yes	Error code.
merchantOrderParams		no	Tag with attributes, used to pass merchant additional parameters. See the table below - "Parameters of <code>merchantOrderParams</code> tag".
attributes		yes	Order attributes in the payment system (order number). See the table below - "Parameters of <code>attributes</code> tag".
cardAuthInfo		no	Tag with payment attributes. See the table below - "Параметры блока <code>cardAuthInfo</code> ".
bindingInfo		no	Tag with information on binding used for payment. See the table below - "Parameters of <code>bindingInfo</code> tag".
authDateTime	ANS	no	Date and time of payment authorization.
terminalId	AN..10	no	Terminal ID.
authRefNum	AN..24	no	Reference number.
paymentAmountInfo		no	Tag with information on approved amount, deposited amount and refund. See the table below - "Parameters of <code>paymentAmountInfo</code> tag".
bankInfo		no	Tag with information on Issuing Bank. See the table below - "Parameters of <code>bankInfo</code> tag".

Parameters of `merchantOrderParams` tag:

Name	Type	Mandatory	Description
------	------	-----------	-------------

name	AN..20	yes	Name of the merchant additional parameter.
value	AN..1024	yes	Value of the merchant additional parameter.

Parameters of `attributes` tag:

Name	Type	Mandatory	Description
name	A7	yes	Attribute name - "mdOrder".
value	ANS36	yes	Attribute value - order identifier in the payment system (unique in the system).

Parameters of `cardAuthInfo` tag:

Name	Type	Mandatory	Description
maskedPan	N..19	no	Masked number of the card that was used for payment.
expiration	N6	no	Card expiration date in the YYYYMM format.
cardholderName	A..64	no	Cardholder name.
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.

Parameters of `bindingInfo` tag:

Name	Type	Mandatory	Description
clientId	AN..255	no	Client number (ID) in the merchant system.
bindingId	AN..255	no	Identifier of the binding used for payment.

Parameters of `paymentAmountInfo` tag:

Name	Type	Mandatory	Description
paymentState	N..9	no	Payment state.
approvedAmount	N..20	no	Amount confirmed for deposit.
depositedAmount	N..20	no	Deposited amount.
refundedAmount	N..20	no	Refund amount.

Parameters of `bankInfo` tag:

Name	Type	Mandatory	Description
bankName	AN..200	no	Name of the Issuing Bank .
bankCountryCode	AN..4	no	Code of the Issuing Bank country.
bankCountryName	AN..160	no	Country of the Issuing Bank in language specified in <code>language</code> parameter or in user language if <code>language</code> parameter is empty.

The `orderStatus` field may have the following statuses:

Value	Description
0	The order is registered, but it is not paid yet.
1	Pre-authorisation amount is held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed

4	Transaction was refunded
5	Authorization through the Issuer's ACS initiated.
6	Authorization declined

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
5	Mandatory field is empty
5	Value of <code>transactionStates</code> parameter is invalid
7	System error
10	Parameter size exceeds maximum value
10	Unsuufficient rights to view transactions of specified merchant.

Request example:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:getLastOrdersForMerchants>
      <request language="en">
        <page>0</page>
        <size>200</size>
        <!-- Optional: -->
        <from>2014-09-10T00:00:00</from>
        <!-- Optional: -->
        <to>2014-11-11T00:00:00</to>
        <!-- Optional: -->
        <transactionStates>
          <!-- Zero or more repetitions: -->
          <transactionStates>DEPOSITED</transactionStates>
        </transactionStates>
        <!-- Optional: -->
        <merchants>
          <!-- Zero or more repetitions: -->
          <merchants>MerchantLogin</merchants>
          <searchByCreatedDate>>false</searchByCreatedDate>
        </merchants>
      </request>
    </mer:getLastOrdersForMerchants>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getLastOrdersForMerchantsResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0">
        <orderStatuses orderNumber="58drs0Pes459Hdsddd0567a0"
orderStatus="2" actionCode="0" actionCodeDescription="Request processed
successfully" amount="250000" currency="810"
date="2014-10-28T12:40:49.233+04:00" orderDescription="Opisanie"
ip="212.5.125.194" errorCode="0">
          <merchantOrderParams name="registr1" value="registr1"/>
          <attributes name="mdOrder"
value="fla3365b-542c-4c8d-b34c-e9a7ee8dbc9c"/>
          <cardAuthInfo maskedPan="411111**1111" expiration="201512"
cardholderName="Ivan" approvalCode="123456"/>
          <bindingInfo clientId="666"
bindingId="1eabfb8e-b90e-4dc8-bef6-14bd392b1cec"/>
          <authDateTime>2014-10-28T12:41:01.207+04:00</authDateTime>
          <terminalId>111113</terminalId>
          <authRefNum>111111111111</authRefNum>
          <paymentAmountInfo paymentState="DEPOSITED"
approvedAmount="250000" depositedAmount="250000" refundedAmount="0"/>
          <bankInfo bankName="TEST CARD" bankCountryCode="RU"
bankCountryName="Russian Federation"/>
        </orderStatuses>
        <orderStatuses orderNumber="57drs0Pes459Hdsddd0567a0"
orderStatus="2" actionCode="0" actionCodeDescription="Request processed
successfully" amount="250000" currency="810"
date="2014-10-28T12:34:37.286+04:00" orderDescription="Opisanie"
ip="212.5.125.194" errorCode="0">
          <merchantOrderParams name="registr1" value="registr1"/>
          <attributes name="mdOrder"
value="09489184-bc5e-44a7-b6c4-3ca1feb8ef69"/>
          <cardAuthInfo maskedPan="411111**1111" expiration="201512"
cardholderName="Ivan" approvalCode="123456"/>
          <bindingInfo clientId="666"
bindingId="1eabfb8e-b90e-4dc8-bef6-14bd392b1cec"/>
          <authDateTime>2014-10-28T12:34:56.046+04:00</authDateTime>
          <terminalId>111113</terminalId>
          <authRefNum>111111111111</authRefNum>
          <paymentAmountInfo paymentState="DEPOSITED"
approvedAmount="250000" depositedAmount="250000" refundedAmount="0"/>
          <bankInfo bankName="TEST CARD" bankCountryCode="RU"
bankCountryName="Russian Federation"/>
        </orderStatuses>
        <totalCount>2</totalCount>
        <page>0</page>
        <pageSize>200</pageSize>
      </return>
    </ns1:getLastOrdersForMerchantsResponse>
  </soap:Body>
</soap:Envelope>
```


6.2.10. Request to add a card number to the list of SSL-cards

The `updateSSLCardList` request allows merchant to add a number of a card used for payment to "SSL PAN list".

This method is available for merchant only at the agreement with the bank. In order to use this method the user must have access rights to work with fraud lists.

Request parameters:

Name	Type	Mandatory	Description
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.

Параметры ответа:

Название	Тип	Обязательно	Описание
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error in the user default language.

Error codes (values of the `errorCode` field):

Value	Description
0	No system error
1	Access denied
2	The user must change his password
3	[mdorder] is not specified
4	There is no payment in the system or [mdorder] is incorrect
6	The card number is already present in the list
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:updateSSLCardList>
      <mdorder>e40927ef-6fa2-43f3-bf97-f1f2bc61d4fd</mdorder>
    </mer:updateSSLCardList>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:updateSSLCardListResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0" errorMessage="Request processing took place
without system errors"/>
    </ns1:updateSSLCardListResponse>
  </soap:Body>
</soap:Envelope>
```

7. REST interface

Interactions are implemented as HTTP requests with GET or POST methods to certain URLs, separate for each individual request type (see "Address data for connections" section for exact addresses). Parameters of interactions are sent as parameters of GET or POST requests; values should be URL encoded.

Result of processing the request returns as a JSON object. Example:

```
{"errorCode":"12","errorMessage":"Empty amount"}
```

For authorization purposes each request should include login and password of the merchant that were produced during its registration. Login and password values are sent as the following parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Login of a user received during registration.
password	AN..30	yes	Password of a user received during registration.

Requests for one- and two-phase schemes may differ. Requests for each scheme are described below.

In design of the pages (payment page, the error page) you have to use Unicode (UTF-8).

Special characters in REST requests must be screened in accordance with the URL-code. The table of characters is represented here - <http://web-developer.name/urlcode/>. For example, password "qwe?rt%y" should be transferred as "qwe%0Frt%25y".

If the Error code = 0, the request was processed by the Payment gate without system errors (error code does not show the status of the order).

To get the status of an order should use the request `getOrderStatus.do` or `getOrderStatusExtended.do` (one of these methods must necessarily be implemented under TSP integration with payment gate).

7.1. Testing of REST requests in an Internet browser

Testing of REST requests with simultaneous work with administrative console in the same Internet browser will entail errors in the console. If you login in the console, then execute one or more REST requests in the other tab, any try to perform an action in the console after that cause an error. To make administrative console work correctly:

- In some cases it is enough to logout and login again;
- Sometimes it is necessary to delete cookie files or to wait until the session timeout.

Such situation may be avoided due to one of the following ways:

- Use incognito mode for REST requests, while working in the administrative console in the regular window;
- Use different Internet browsers for REST requests and administrative console.

7.2. One-phase payment requests

7.2.1. Order registration request

To register an order in the payment gate use `register.do` request (see "Address data for connections" section).

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderNumber	AN..32	yes	Number (identifier) of the order in the merchant's system.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).
currency	N3	yes	Code of the payment currency, according to ISO 4217.
returnUrl	AN..512	yes	Web address that the client should be redirected to after successful payment. Absolute link must be specified.
failUrl	AN..512	no	Web address that the client should be redirected if the payment failed. Absolute link must be specified.
description	AN..512	no	Free-formed description of the order.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings.
pageView	ANS..20	no	<p>This parameter indicates what type of payment interface pages should be uploaded for the payer. Possible values:</p> <ul style="list-style-type: none">• DESKTOP – to upload pages designed for displaying on PC monitors (pages with names <code>payment_<locale>.html</code> and <code>errors_<locale>.html</code> from archive of payment interface pages);• MOBILE – to upload pages designed for displaying on mobile devices (pages with names <code>mobile_payment_<locale>.html</code> and <code>mobile_errors_<locale>.html</code> from archive of payment interface pages);• If the merchant has pages with names formed by adding of some prefix to the template part of the page name, then you can specify necessary prefix in the <code>pageView</code> parameter in order to redirect client to the corresponding page. For example, if <code>pageView=iphone</code> then pages with names <code>iphone_payment_<locale>.html</code> and <code>iphone_error_<locale>.html</code> will be used. <p>Where:</p> <p>locale – the page language in 2-alpha code according to ISO 639-1, e.g. <code>ru</code> for Russian and <code>en</code> for English.</p> <p>Default value is <code>pageView=DESKTOP</code>.</p>
clientId	AN..255	no	Client number (ID) in the shop system. It is used for bundles functionality implementation. Presents only if a shop is allowed to create links.
merchantLogin	AN..255	no	To register the order from the name of the child merchant, specify its login in this parameter.
jsonParams	AN..1024	no	<p>Block for sending of merchant additional parameters. Fields of additional information for storage, should be sent as:</p> <pre>{ "<name1>": "<value1>", ... , "<nameN>": "<valueN>" },</pre> <p>These fields may be passed to the bank processing for their representation in registers.*</p> <p>This functionality can be switched on during the integration period at the agreement with bank.</p> <p>If notification of the client is switched on for the merchant, this block should contain parameter with name <code>email</code> which value is a client's email.</p>

sessionTimeoutSecs	N...9	no	Duration of order life in seconds. If the parameter is not specified, then the value from merchant settings is used, otherwise - the default value (1200 seconds - 20 minutes). If the request contains <code>expirationDate</code> parameter, the parameter <code>sessionTimeoutSecs</code> is ignored.
expirationDate	ANS	no	Date and time of termination of order life. Format: <code>yyyy-MM-ddTHH:mm:ss</code> . If this parameter is not specified, the <code>sessionTimeoutSecs</code> parameter is used to determine date and time of termination of order life.
bindingId	AN..255	no	Identificator of the binding, that was created earlier. May be used only if the merchant has permission to work with bindings. If this parameter is sent in the request, that means: 1. This order may be payed only by binding; 2. The payer will be redirected to a payment page, where entering of CVC only is required.

* By default the following fields are passed to the bank processing:

- `orderNumber` – order number in the merchant system;
- `description` – order description (not more than 99 simbols, the following simbols are forbidden to use - %, +, \r, \n).

If additional parameter with name `merchantOrderId` is sent with the order, then its value will be passed to the bank processing as order number (instead of value of `orderNumber` field).

Response parameters:

Name	Type	Mandatory	Description
orderId	ANS36	no	Order number in the payment gate. Unique within the gate. Absent if order registration failed (error is described in <code>errorCode</code>).
formUrl	AN..512	no	URL of the payment form that the client should be redirected to. Absent if order registration failed (error is described in <code>errorCode</code>).
errorCode	N3	no	Code of the error that occurs during registration.
errorMessage	AN..512	no	Description of the error in the language sent in the <code>language</code> parameter of the request.

Error codes (values of the `errorCode` field)

Errors classification:

Value	Description
0	No system error.
1	Order number is duplicated, order with given order number is processed already
3	Unknown currency
4	Mandatory request parameter was not specified
5	Erroneous value of a request parameter.
7	System error.

Possible error messages:

Value	Description
0	No system error
1	Order with this number was already processed.
1	Order with this number was registered, but was not paid off.
1	Invalid orderNumber

3	Unknown currency.
4	Order number is empty
4	Empty merchant user name
4	Empty amount
4	Return URL cannot be empty
4	Password cannot be empty
5	Invalid value of one of the parameters
5	Access denied
5	The user must change his password
5	Invalid [jsonParams]
7	System error

GET Request example:

```
https://web.rbsuat.com/ab/rest/register.do?amount=100&currency=810&language=ru&orderNumber=87654321&password=password&returnUrl=https://web.rbsuat.com/ab/finish.html&userName=userName&jsonParams={"orderNumber":1234567890}&pageView=MOBIL&expirationDate=2014-09-08T14:14:14&merchantLogin=merch_child
```

POST Request example:

```
amount=100&currency=810&language=ru&orderNumber=87654321&returnUrl=https://web.rbsuat.com/ab/finish.html&jsonParams={"orderNumber":1234567890}&pageView=MOBIL&expirationDate=2014-09-08T14:14:14&merchantLogin=merch_child
```

Response example:

```
{"orderId":"70906e55-7114-41d6-8332-4609dc6590f4","formUrl":"https://web.rbsuat.com/ab/merchants/test/mobile_payment_ru.html?mdOrder=70906e55-7114-41d6-8332-4609dc6590f4"}
```

7.2.2. Order reversal request

To cancel payment of the order, use `reverse.do` request. This functionality is available for a limited period, that is specified by the Bank.

The reversal operation may be performed only once. If the reversal request caused an error, the next try will not be successful.

The reversal operation is available for merchants only under agreement with the Bank. To perform the reversal request a user must have an appropriate permission.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages returned will be written in this very language.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error.

Error codes (values of the errorCode field):

Error classification:

Value	Description
0	No system error.
5	Erroneous value of a request parameter.
6	Unregistered OrderId.
7	System error.

Possible error messages:

Value	Description
0	No system error
5	Access denied
5	The user must change his password
5	[orderId] is empty
6	No such order
7	Payment must be in a correct state.
7	Reversal is impossible. Reason: wrong internal values, check hold and deposited amounts.
7	System error.

GET Request example:

```
https://web.rbsuat.com/ab/rest/reverse.do?language=en&orderId=80c45f2e-8db4-4d20-9324-5b784a1fd8c3&password=password&userName=userName
```

POST Request example:

```
language=en&orderId=80c45f2e-8db4-4d20-9324-5b784a1fd8c3
```

Response example:

```
{ "errorCode": "0", "errorMessage": "Success" }
```

7.2.3. Refund request.

Use `refund.do` request to refund deposited money.

This request returns money paid for the order back to the client. Request causes an error if the client is not charged. The payment gate allows multiple refunds, but their total amount cannot exceed the amount that was deposited from the client's account as a result of the order.

A user must have a corresponding permission in the system to perform this operation.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error.

Error codes (values of the `errorCode` field)

Classification:

Value	Description
0	No system error.
5	Erroneous value of a request parameter.
6	Unregistered OrderId.

7	System error.
---	---------------

Possible error messages:

Value	Description
0	No system error
5	Access denied
5	The user must change his password
5	[orderId] is empty
6	No such order
7	Payment must be in a correct state.
7	Wrong deposit amount (less than 1 currency unit, e.g. 1 euro).
7	System error.

GET Request example:

```
https://web.rbsuat.com/ab/rest/refund.do?amount=500&currency=810&language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208&password=password&userName=userName
```

POST Request example:

```
amount=500&currency=810&language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208
```

Response example:

```
{"errorCode":0}
```

7.2.4. Order state request

To get the current state of a registered order send data with `getOrderStatus.do` method (GET or POST) to the corresponding URL (see "Address data for connections" section).

The order status should be determined by the value of `OrderStatus` parameter.
`authCode` field is deprecated.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.

orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages returned will be written in this very language.

Response parameters:

Name	Type	Mandatory	Description
OrderStatus	N2	no	This paramater shows order status in the payment gate. Possible values are listed in the table below. Parameter is absent if no order with the specified ID was found.
ErrorCode	N3	no	Error code.
ErrorMessage	AN..512	no	Description of the error in the language sent in the Language parameter of the request.
OrderNumber	AN..32	yes	Number (identifier) of the order in the merchant's system.
Pan	N..19	no	Masked number of the card that was used in payment. Specified only for paid orders.
expiration	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.
cardholderName	A..64	no	Cardholder name. Specified only for paid orders.
Amount	N..20	yes	Order amount in minimal currency units (e.g. cents).
currency	N3	no	Code of the payment currency, according to ISO 4217.
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.
authCode	N3	no	This parameter is deprecated. Its value is always "2", regardless of the order status and processing system authorization code.
Ip	AN..20	no	IP address of the user who payed for the order.
bindingInfo (element consits of clientId and bindingId):			
clientId	AN..255	no	Number of the client (identifier) in the merchant's system. Used to implement a functional of ligament.May be present, if the merchant is allowed to create the ligament.
bindingId	AN..255	no	Idenficator of the ligament created while paying an order or used to pay for. Present only if creation of ligaments is allowed for merchant.

The **OrderStatus** field may have the following values:

State number	Description
0	Order registered, but not paid off.
1	Pre-authorisation amount was held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded.
5	Authorization through the issuer's ACS initiated
6	Authorization declined

Error codes (values of the **ErrorCode** field):

Value	Description
0	No system error

2	The order is declined because of an error in the payment credentials.
5	Access denied
5	The user must change his password
5	[orderId] is empty
6	Unknown order id
7	System error

GET request example:

```
https://web.rbsuat.com/ab/rest/getOrderStatus.do?
language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208&password=password
&userName=userName
```

POST request example:

```
orderId=b8d70aa7-bfb3-4f94-b7bb-aec7273e1fce&language=en
```

Response example:

```
{ "expiration": "201512", "cardholderName": "tr
tr", "depositAmount": 789789, "currency": "810", "approvalCode": "123456", "authC
ode": 2, "clientId": "666", "bindingId": "07a90a5d-cc60-4d1b-a9e6-ffd15974a74f"
, "ErrorCode": "0", "ErrorMessage": "Success", "OrderStatus": 2, "OrderNumber": "2
3asdafaf", "Pan": "411111**1111", "Amount": 789789 }
```

7.2.5. Extended order state request

To inquire about state of a registered order, use the `getOrderStatusExtended.do` request.

Request parameters

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderId	ANS36	yes*	Order number in the payment gate. Unique within the gate.
orderNumber	AN..32	yes*	Number (identifier) of the order in the merchant's system.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages returned will be written in this very language.

* It is necessary to specify whether `orderId` or `orderNumber` in the request. If the request contains both parameters, `orderId` is a priority.

There are 3 sets of response parameters. These sets depend on "getOrderStatusExtended version" specified in merchant settings.

Response parameters for versions 01, 02,03:

The following parameters are returned regardless `getOrderStatusExtended` version.

Name	Type	Mandatory	Description
orderNumber	AN..32	yes	Number (identifier) of the order in the merchant's system.
orderStatus	N2	no	Order status in the payment gate. The value is selected from the variants listed below. Absent, if no matching order was found.
actionCode	N3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description on the language passed in the parameter "Language".
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error in the language sent in the Language parameter of the request.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).
currency	N3	no	Code of the payment currency, according to ISO 4217. If not specified, assumed to be 810 (Russian rubles).
date	ANS	yes	Date of order registration.
orderDescription	AN..512	no	Free-formed description of the order.
ip	N..	yes	IP address of the user who paid for the order.

Element `merchantOrderParams` is present in the reponse if the order contains merchant additional parameters. Each additional parameter is described in a separate block by the following fields:

name	AN..20	no	Name of additional parameter
value	AN..1024	no	Value of additional parameter

Element `cardAuthInfo` has structure which includes the list of element `secureAuthInfo` and the following fields:

pan	N..19	no	Masked number of the card that was used in payment. Specified only for paid orders.
expiration	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.
cardholderName	A..64	no	Cardholder name. Specified only for paid orders.
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.

Element `secureAuthInfo` (includes `eci` parameter and element `threeDSInfo` with parameters `cavv` and `xid`):

eci	N..4	no	Electronic Commerce Indicator. Set just after the payment order in the case of a permit.
cavv	ANS..200	no	Cardholder Authentication Verification Value. Set just after the payment order in the case of a permit
xid	ANS..80	no	Electronic Commerce Transaction Identifier. Set just after the payment order in the case of a permit.

Element `bindingInfo` consists of the following fields:

clientId	AN..255	no	Client number (ID) in the shop system, transferred during the order registration. Presents only if a shop is allowed to create links.
bindingId	AN..255	no	The identifier of a link created during order payment or used for payment. Presents only if a shop is allowed to create links.

Response parameters for versions 02, 03:

If `getOrderStatusExtended` version is 02 or higher, the following parameters are also returned along with parameters described above.

Name	Type	Mandatory	Description
authDateTime	ANS	no	Authorisation date and time
authRefNum	AN..24	no	Reference number
terminalId	AN..10	no	Terminal Id

Response parameters for version 03:

If *getOrderStatusExtended* version is 03, the following parameters are also returned along with parameters described above.

Name	Type	Mandatory	Description
Element <i>paymentAmountInfo</i> consists of the following fields:			
approvedAmount	N..20	no	Amount hold on the client's card (only for two-phase payments)
epositedAmount	N..20	no	Amount confirmed for deposit
refundedAmount	N..20	no	Refund amount
paymentState	N2	no	Payment state
Element <i>bankInfo</i> consists of the following fields:			
bankName	AN..200	no	Name of issuing bank
bankCountryCode	AN..4	no	Code of issuing bank country
bankCountryName	AN..160	no	Country of issuing bank in language specified in language parameter or in user language if language parameter is empty

The **orderStatus** field may have the following statuses:

State number	Description
0	Order registered, but not paid off
1	Pre-authorisation amount was held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the issuer's ACS initiated
6	Authorization declined

Error codes (values of the **errorCode** field):

Value	Description
0	No system error
1	Expected [orderId] или [orderNumber]
2	The order is declined because of an error in the payment credentials
5	Access denied
5	The user must change his password

6	Order not found
7	System error

GET Request example:

```
https://web.rbsuat.com/ab/rest/getOrderStatusExtended.do?userName=userName
&password=password&orderId=285b2973-4d02-4980-a54e-57c4d0d2xxx9&language=ru
```

POST Request example:

```
orderId=285b2973-4d02-4980-a54e-57c4d0d2xxx9&language=ru
```

Response example:

```
{ "attributes": [], "date": 1342007119386, "currency": "810", "amount": 100, "actionCode": 0, "orderNumber": "1212x31334z15", "orderDescription": "test", "orderStatus": 2, "ip": "217.12.97.50", "actionCodeDescription": "", "merchantOrderParams": [], "cardAuthInfo": { "expiration": "201512", "pan": "411111**1111", "approvalCode": "123456", "cardholderName": "dsdqdqd", "secureAuthInfo": { "eci": 5, "threeDSInfo": { "cavv": "AAABCpEAUBNCAHEgBQAAAAAAAAA=", "xid": "MDAwMDAwMDEzNDIwMDcxMTk3Njc=" } } } }
```

7.2.6. 3DS enrolled verification request

To inquire about state of 3DS enrolled verification, use the verifyEnrollment request.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	User login (API)
password	AN..30	yes	User password (API)
pan	N12...19	yes	Card number.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error.

errorMessage	AN..512	no	Description of the ErrorCode error.
enrolled	A1	no	3ds enrolled attribute. Available values: Y, N, U.
emitterName	AN..160	no	Name of the issuer bank
emitterCountryCode	AN..4	no	Country code of the issuer bank

Possible codes for errors (the errorCode field):

Значение	Описание
0	No system error
1	PAN not specified
1	PAN must be a number from 13 to 19 digits
5	The user must change his password
5	Access denied
6	No info found for specified PAN.
7	System error.

GET request example::

```
https://test.paymentgate.ru/testpayment/rest/verifyEnrollment.do?
userName=api&password=***&pan=4111111111111111]
```

POST request example:

```
pan=4111111111111111
```

Response example:

```
{"errorCode":"0","errorMessage":"Успешно","emitterName":"TEST CARD", "emitterCountryCode":"RU","enrolled":"Y"}
```

7.2.7. Payment statistics for a specified period

`getLastOrdersForMerchants.do` method allows you to obtain statistics on payments for a certain period.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration..
password	AN..30	yes	Merchant's login received during registration..
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages returned will be written in this very language.
page	N	no	The result of the request processing is a report divided into pages (each page contains <code>size</code> records). The response will return a page at number specified in this parameter. Page numbering starts at 0. If <code>page</code> parameter is not specified in the request, the response will return page number 0.

size	N..3	yes	Number of records on one page (maximum value is 200).
from	ANS	yes	Date and time of the report period beginning. Format is YYYYMMDDHHmmss.
to	ANS	yes	Date and time of the report period end. Format is YYYYMMDDHHmmss.
transactionStates	A..9	yes	This block is designed to specify order states you need to be included into the report. Several values should be separated by comma. Possible values: CREATED, APPROVED, DEPOSITED, DECLINED, REVERSED, REFUNDED.
merchants	ANS	yes	List of merchant Logins. Only transactions of specified merchants will be included into the report. Several values should be separated by comma. Leave this field empty to receive transactions of all available merchants (which includes child merchants and merchants specified as viewable in user settings).
searchByCreateDate	boolean	no	Possible values: <ul style="list-style-type: none"> • <code>true</code> – search for orders by date of order creation. • <code>false</code> – search for orders by date of <u>payment</u> (thus orders in state <code>CREATED</code> и <code>DECLINED</code> can not be present in the report). Default value – <code>false</code> .

Response parameters:

Name	Type	Mandatory	Description
errorCode	N..2	yes	Code of the error that occurred in the course of the report processing. Description of possible codes is represented in the table below - "Possible codes for errors (the <code>errorCode</code> field)".
errorMessage	AN..512	no	Description of the error. Present only in case of error (<code>errorCode</code> is not 0).
orderStatuses			Block containing data on orders in the report. See the table below - "Parameters of <code>orderStatuses</code> tags".
totalCount	N	yes	Total account of orders in the report (on all pages).
page	N	yes	The number of the current page (it is equal to the <code>page</code> parameter, transferred in the request).
pageSize	N..3	yes	Maximum number of orders on one page of the report (it is equal to the <code>size</code> parameter, transferred in the request).

Parameters of `orderStatuses` tags:

Name	Type	Mandatory	Description
orderNumber	AN..32	yes	Order number (identifier) in the merchant's system
orderStatus	N..2	yes	State of the order in the payment gate. The value is selected from the list below. Possible values are represented in the table below - "The <code>orderStatus</code> field".
actionCode	N..3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description in the language specified in the parameter <code>language</code> of the request.
amount	N..20	yes	Order amount in minimal currency units.
currency	N3	yes	Code of the payment's currency (according to ISO 4217). If not specified, assumed to be default currency.
date	ANS	yes	Date of order registration.
orderDescription	AN..512	no	Free-formed description of the order from the order registration request.
ip	AN..20	no	IP address of the payer.
errorCode	N..2	yes	Error code.
merchantOrderParams		no	Tag with attributes, used to pass merchant additional parameters. See the table below - "Parameters of <code>merchantOrderParams</code> tag".
attributes		yes	Order attributes in the payment system (order number). See the table below - "Parameters of <code>attributes</code> tag".
cardAuthInfo		no	Tag with payment attributes. See the table below - "Параметры блока <code>cardAuthInfo</code> ".
bindingInfo		no	Tag with information on binding used for payment. See the table below - "Parameters of <code>bindingInfo</code> tag".
authDateTime	ANS	no	Date and time of payment authorization.

terminalId	AN..10	no	Terminal ID.
authRefNum	AN..24	no	Reference number
paymentAmountInfo		no	Tag with information on approved amount, deposited amount and refund. See the table below - "Parameters of paymentAmountInfo tag".
bankInfo		no	Tag with information on Issuing Bank. See the table below - "Parameters of bankInfo tag"

Parameters of merchantOrderParams tag:

Name	Type	Mandatory	Description
name	AN..20	yes	Name of the merchant additional parameter.
value	AN..1024	yes	Value of the merchant additional parameter.

Parameters of attributes tag:

Name	Type	Mandatory	Description
name	A7	yes	Attribute name - "mdOrder".
value	ANS36	yes	Attribute value - order identifier in the payment system (unique in the system).

Parameters of cardAuthInfo tag:

Name	Type	Mandatory	Description
pan	N..19	no	Masked number of the card that was used for payment.
expiration	N6	no	Card expiration date in the YYYYMM format.
cardholderName	A..64	no	Cardholder name.
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.

Parameters of bindingInfo tag:

Name	Type	Mandatory	Description
clientId	AN..255	no	Client number (ID) in the merchant system.
bindingId	AN..255	no	Identifier of the binding used for payment.

Parameters of paymentAmountInfo tag:

Name	Type	Mandatory	Description
paymentState	N..9	no	Payment state.
approvedAmount	N..20	no	Amount confirmed for deposit.
depositedAmount	N..20	no	Deposited amount.
refundedAmount	N..20	no	Refund amount.

Parameters of bankInfo tag:

Name	Type	Mandatory	Description
bankName	AN..200	no	Name of the Issuing Bank .
bankCountryCode	AN..4	no	Code of the Issuing Bank country.

bankCountryName	AN..160	no	Country of the Issuing Bank in language specified in language parameter or in user language if language parameter is empty.
-----------------	---------	----	-----------------------------------------------------------------------------------------------------------------------------

The `orderStatus` field may have the following statuses:

Value	Description
0	The order is registered, but it is not paid yet.
1	Pre-authorisation amount is held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the Issuer's ACS initiated.
6	Authorization declined

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
5	Mandatory field is empty
5	Value of transactionStates parameter is invalid
5	Access denied
7	System error
10	Parameter size exceeds maximum value
10	Uninsufficient rights to view transactions of specified merchant.

GET request example:

```
https://web.rbsuat.com/ab/rest/getLastOrdersForMerchants.do?userName=userName&password=password&language=en&page=0&size=100&from=20141009160000&to=20141111000000&transactionStates=DEPOSITED,REVERSED&merchants=SevenEightNine&searchByCreatedDate=true
```

POST request example:

```
language=en&page=0&size=100&from=20141009160000&to=20141111000000&transactionStates=DEPOSITED,REVERSED&merchants=SevenEightNine&searchByCreatedDate=true
```

Response example:

```
{ "errorCode": 0,

  "orderStatuses": [

    { "errorCode": "0", "orderNumber": "58drs0Pes459Hdsddd0567a0", "orderStatus": 2,
      "actionCode": 0, "actionCodeDescription": "Request processed successfully", "amount": 250000, "currency": "810", "date": 1414485649233, "orderDescription": "Opisanie", "ip": "212.5.125.194", "merchantOrderParams": [ { "name": "registr1", "value": "registr1" } ], "attributes": [ { "name": "mdOrder", "value": "fla3365b-542c-4c8d-b34c-e9a7ee8dbc9c" } ], "cardAuthInfo": { "expiration": "201512", "cardholderName": "Ivan", "approvalCode": "123456", "pan": "411111**1111" }, "bindingInfo": { "clientId": "666", "bindingId": "leabfb8e-b90e-4dc8-bef6-14bd392blcec" }, "authDateTime": 1414485661207, "terminalId": "111113", "authRefNum": "111111111111", "paymentAmountInfo": { "paymentState": "DEPOSITED", "approvedAmount": 250000, "depositedAmount": 250000, "refundedAmount": 0 }, "bankInfo": { "bankName": "TEST CARD", "bankCountryCode": "RU", "bankCountryName": "Russian Federation" } },

    { "errorCode": "0", "orderNumber": "57drs0Pes459Hdsddd0567a0", "orderStatus": 2,
      "actionCode": 0, "actionCodeDescription": "Request processed successfully", "amount": 250000, "currency": "810", "date": 1414485277286, "orderDescription": "Opisanie", "ip": "212.5.125.194", "merchantOrderParams": [ { "name": "registr1", "value": "registr1" } ], "attributes": [ { "name": "mdOrder", "value": "09489184-bc5e-44a7-b6c4-3ca1feb8ef69" } ], "cardAuthInfo": { "expiration": "201512", "cardholderName": "Ivan", "approvalCode": "123456", "pan": "411111**1111" }, "bindingInfo": { "clientId": "666", "bindingId": "leabfb8e-b90e-4dc8-bef6-14bd392blcec" }, "authDateTime": 1414485296046, "terminalId": "111113", "authRefNum": "111111111111", "paymentAmountInfo": { "paymentState": "DEPOSITED", "approvedAmount": 250000, "depositedAmount": 250000, "refundedAmount": 0 }, "bankInfo": { "bankName": "TEST CARD", "bankCountryCode": "RU", "bankCountryName": "Russian Federation" } } ],

  "totalCount": 2, "page": 0, "pageSize": 100 }
```

7.2.8. Request to add a card number to the list of SSL-cards

The `updateSSLCardList.do` request allows merchant to add a number of a card used for payment to "SSL PAN list".

This method is available for merchant only at the agreement with the bank. In order to use this method the user must have access rights to work with fraud lists.

Request parameters:

Name	Type	Mandatory	Description
mdorder	ANS36	yes	Order number in the payment gate. Unique within the gate.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error in the user default language.

Error codes (values of the **errorCode** field):

Value	Description
0	No system error
1	Access denied
2	The user must change his password
3	[mdorder] is not specified
4	There is no payment in the system or [mdorder] is incorrect
6	The card number is already present in the list
7	System error

Request example:

```
https://web.rbsuat.com/ab/rest/updateSSLCardList.do?mdorder=a4d7d5e5-441d-401c-b25e-bd5d9fffe227&userName=987&password=111111
```

Response example:

```
{"errorCode": "0", "errorMessage": ""}
```

7.3. Two-phase payment requests

7.3.1. Preauthorized order registration request

Use `registerPreAuth.do` request for order registration (see "Address data for connections" section).

Request parameters:

Name	Type	Mandatory	Description
------	------	-----------	-------------

userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderNumber	AN..32	yes	Number (identifier) of the order in the merchant's system.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).
currency	N3	yes	Code of the payment currency, according to ISO 4217.
returnUrl	AN..512	yes	Web address that the client should be redirected to after successful payment. Absolute link must be specified.
failUrl	AN..512	no	Web address that the client should be redirected if the payment failed. Absolute link must be specified.
description	AN..512	no	Free-formed description of the order.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings.
pageView	ANS..20	no	<p>This parameter indicates what type of payment interface pages should be uploaded for the payer. Possible values:</p> <ul style="list-style-type: none"> • DESKTOP – to upload pages designed for displaying on PC monitors (pages with names <code>payment_<locale>.html</code> and <code>errors_<locale>.html</code> from archive of payment interface pages); • MOBILE – to upload pages designed for displaying on mobile devices (pages with names <code>mobile_payment_<locale>.html</code> and <code>mobile_errors_<locale>.html</code> from archive of payment interface pages); • If the merchant has pages with names formed by adding of some prefix to the template part of the page name, then you can specify necessary prefix in the <code>pageView</code> parameter in order to redirect client to the corresponding page. For example, if <code>pageView=iphone</code> then pages with names <code>iphone_payment_<locale>.html</code> and <code>iphone_error_<locale>.html</code> will be used. <p>Where:</p> <p><code>locale</code> – the page language in 2-alpha code according to ISO 639-1, e.g. <code>ru</code> for Russian and <code>en</code> for English.</p> <p>Default value is <code>pageView=DESKTOP</code>.</p>
clientId	AN..255	no	Client number (ID) in the merchant system. It is used for bundles functionality implementation. Presents only if a merchant is allowed to create bindings.
merchantLogin	AN..255	no	To register the order from the name of the child merchant, specify its login in this parameter.
jsonParams	AN..1024	no	<p>Block for sending of merchant additional parameters. Fields of additional information for storage, should be sent as:</p> <pre>{ "name1": "<value1>", ... , "nameN": "<valueN>" },</pre> <p>These fields may be passed to the bank processing for their representation in registers.*</p> <p>This functionality can be switched on during the integration period at the agreement with bank.</p> <p>If notification of the client is switched on for the merchant, this block should contain parameter with name <code>email</code> which value is a client's email.</p>
sessionTimeoutSecs	N...9	no	<p>Duration of order life in seconds.</p> <p>If the parameter is not specified, then the value from merchant settings is used, otherwise - the default value (1200 seconds - 20 minutes).</p> <p>If the request contains <code>expirationDate</code> parameter, the parameter <code>sessionTimeoutSecs</code> is ignored.</p>
expirationDate	ANS	no	<p>Date and time of termination of order life. Format: <code>yyyy-MM-ddTHH:mm:ss</code>.</p> <p>If this parameter is not specified, the <code>sessionTimeoutSecs</code> parameter is used to determine date and time of termination of order life.</p>
bindingId	AN..255	no	<p>Identificator of the binding, that was created earlier. May be used only if the merchant has permission to work with bindings. If this parameter is sent in order registration request, that means:</p> <ol style="list-style-type: none"> 1. This order may be payed only by binding; 2. The payer will be redirected to a payment page, where entering of CVC only is required.

* By default the following fields are passed to the bank processing:

- `orderNumber` – order number in the merchant system;
- `description` – order description (not more than 99 symbols, the following symbols are forbidden to use - %, +, \r, \n).

If additional parameter with name `merchantOrderId` is sent with the order, then its value will be passed to the bank processing as order number (instead of value of `orderNumber` field).

Response parameters:

Name	Type	Mandatory	Description
orderId	ANS36	no	Order number in the payment gate. Unique within the gate. Absent if order registration failed (error is described in ErrorCode).
formUrl	AN..512	no	URL of the payment form that the client should be redirected to. Absent if order registration failed (error is described in ErrorCode).
errorCode	N3	no	Code of the error that occurs during registration.
errorMessage	AN..512	no	Description of the error in the language sent in the Language parameter of the request.

Error codes (values of the **errorCode** field)

Errors classification:

Value	Description
0	No system error
1	Order number is duplicated, order with given order number is processed already
3	Unknown currency
4	Mandatory request parameter was not specified
5	Erroneous value of a request parameter.
7	System error.

Possible error messages:

Value	Description
0	No system error
1	Order with this number was already processed.
1	Order with this number was registered, but was not paid off.
1	Invalid orderNumber
3	Unknown currency.
4	Order number is empty
4	Empty merchant user name
4	Empty amount
4	Return URL cannot be empty
4	Password cannot be empty
5	Wrong amount.
5	Wrong value of the Language parameter.
5	Merchant login is invalid
5	Access denied
5	The user must change his password

5	Invalid [jsonParams]
5	Pre-authorization payment is restricted
7	System error.

GET request example:

```
https://web.rbsuat.com/ab/rest/registerPreAuth.do?amount=100&currency=810&language=ru&orderNumber=87654321&password=password&returnUrl=https://web.rbsuat.com/ab/finish.html&userName=userName&jsonParams={"orderNumber":1234567890}&pageView=DESKTOP&merchantLogin=merch_child
```

POST request example:

```
amount=100&currency=810&language=ru&orderNumber=87654321&returnUrl=https://web.rbsuat.com/ab/finish.html&jsonParams={"orderNumber":1234567890}&pageView=DESKTOP&merchantLogin=merch_child
```

Response example:

```
{"orderId": "61351fbd-ac25-484f-b930-4d0ce4101ab7", "formUrl": "https://web.rbsuat.com/ab/merchants/test/payment_ru.html?mdOrder=61351fbd-ac25-484f-b930-4d0ce4101ab7" }
```

7.3.2. Order completion request

Use deposit.do request to complete preauthorized payment.

This operation can be performed if there is a corresponding permission in the system.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).

Attention!!! If you do not specify zero in "DepositAmount" parameter, completion occurs for the entire pre-authorized amount.

Response parameters

Name	Type	Mandatory	Description
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error.

Error codes (values of the errorCode field)

Error classification:

Value	Description
0	No system error.
5	Erroneous value of a request parameter.
6	Unregistered OrderId.
7	System error.

Possible error messages:

Value	Description
0	No system error
5	Access denied
5	The user must change his password
5	Invalid amount
5	Deposit amount must be zero, or more than 1 currency unit (e.g. 1 euro).
6	No such order
7	Payment must be in a correct state.
7	System error.

GET Request example:

```
[https://server/testpayment/rest/deposit.do?  
amount=100&currency=810&language=ru&orderId=e5b59d3d-746b-4828-9da4-06f126e01b68  
&password=testPwd&userName=testtest]
```

POST Request example:

```
amount=100&currency=810&language=ru&orderId=e5b59d3d-746b-4828-9da4-06f126e01b68
```

Response example:

```
{"errorCode":0}
```

7.3.3. Order reversal request

To cancel payment of the order, use `reverse.do` request. This functionality is available for a limited period, that is specified by the Bank.

The reversal operation may be performed only once. If the reversal request caused an error, the next try will not be successful.

The reversal operation is available for merchants only under agreement with the Bank. To perform the reversal request a user must have an appropriate permission.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages returned will be written in this very language.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error.

Error codes (values of the `errorCode` field):

Error classification:

Value	Description
0	No system error.
5	Erroneous value of a request parameter.
6	Unregistered OrderId.
7	System error.

Possible error messages:

Value	Description
0	No system error
5	Access denied

5	The user must change his password
5	[orderId] is empty
6	No such order
7	Payment must be in a correct state.
7	Reversal is impossible. Reason: wrong internal values, check hold and deposited amounts.
7	System error.

GET Request example:

```
https://web.rbsuat.com/ab/rest/reverse.do?language=en&orderId=80c45f2e-8db4-4d20-9324-5b784a1fd8c3&password=password&userName=userName
```

POST Request example:

```
language=en&orderId=80c45f2e-8db4-4d20-9324-5b784a1fd8c3
```

Response example:

```
{ "errorCode": "0", "errorMessage": "Success" }
```

7.3.4. Refund request.

Use `refund.do` request to refund deposited money.

This request returns money paid for the order back to the client. Request causes an error if the client is not charged. The payment gate allows multiple refunds, but their total amount cannot exceed the amount that was deposited from the client's account as a result of the order.

A user must have a corresponding permission in the system to perform this operation.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error.

Error codes (values of the **errorCode** field)

Classification:

Value	Description
0	No system error.
5	Erroneous value of a request parameter.
6	Unregistered OrderId.
7	System error.

Possible error messages:

Value	Description
0	No system error
5	Access denied
5	The user must change his password
5	[orderId] is empty
6	No such order
7	Payment must be in a correct state.
7	Wrong deposit amount (less than 1 currency unit, e.g. 1 euro).
7	System error.

GET Request example:

```
https://web.rbsuat.com/ab/rest/refund.do?amount=500&currency=810&language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208&password=password&userName=userName
```

POST Request example:

```
amount=500&currency=810&language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208
```

Response example:

```
{"errorCode":0}
```

7.3.5. Order state request

To get the current state of a registered order send data with `getOrderStatus.do` method (GET or POST) to the corresponding URL (see "Address data for connections" section).

The order status should be determined by the value of `OrderStatus` parameter.
`authCode` field is deprecated.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderId	ANS36	yes	Order number in the payment gate. Unique within the gate.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages returned will be written in this very language.

Response parameters:

Name	Type	Mandatory	Description
OrderStatus	N2	no	This parameter shows order status in the payment gate. Possible values are listed in the table below. Parameter is absent if no order with the specified ID was found.
ErrorCode	N3	no	Error code.
ErrorMessage	AN..512	no	Description of the error in the language sent in the Language parameter of the request.
OrderNumber	AN..32	yes	Number (identifier) of the order in the merchant's system.
Pan	N..19	no	Masked number of the card that was used in payment. Specified only for paid orders.
expiration	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.
cardholderName	A..64	no	Cardholder name. Specified only for paid orders.
Amount	N..20	yes	Order amount in minimal currency units (e.g. cents).
currency	N3	no	Code of the payment currency, according to ISO 4217.
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.
authCode	N3	no	This parameter is deprecated. Its value is always "2", regardless of the order status and processing system authorization code.
Ip	AN..20	no	IP address of the user who paid for the order.
bindingInfo (element consists of clientId and bindingId):			
clientId	AN..255	no	Number of the client (identifier) in the merchant's system. Used to implement a functional of ligament. May be present, if the merchant is allowed to create the ligament.
bindingId	AN..255	no	Identifier of the ligament created while paying an order or used to pay for. Present only if creation of ligaments is allowed for merchant.

The `OrderStatus` field may have the following values:

State number	Description
0	Order registered, but not paid off.
1	Pre-authorisation amount was held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed

4	Transaction was refunded.
5	Authorization through the issuer's ACS initiated
6	Authorization declined

Error codes (values of the **ErrorCode** field):

Value	Description
0	No system error
2	The order is declined because of an error in the payment credentials.
5	Access denied
5	The user must change his password
5	[orderId] is empty
6	Unknown order id
7	System error

GET request example:

```
https://web.rbsuat.com/ab/rest/getOrderStatus.do?
language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208&password=password
&userName=userName
```

POST request example:

```
orderId=b8d70aa7-bfb3-4f94-b7bb-aec7273e1f5e&language=en
```

Response example:

```
{ "expiration": "201512", "cardholderName": "tr
tr", "depositAmount": 789789, "currency": "810", "approvalCode": "123456", "authC
ode": 2, "clientId": "666", "bindingId": "07a90a5d-cc60-4d1b-a9e6-ffd15974a74f"
, "ErrorCode": "0", "ErrorMessage": "Success", "OrderStatus": 2, "OrderNumber": "2
3asdafaf", "Pan": "411111**1111", "Amount": 789789 }
```

7.3.6. Extended order state request

To inquire about state of a registered order, use the `getOrderStatusExtended.do` request.

Request parameters

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
orderId	ANS36	yes*	Order number in the payment gate. Unique within the gate.
orderNumber	AN..32	yes*	Number (identifier) of the order in the merchant's system.
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages returned will be written in this very language.

* It is necessary to specify whether `orderId` or `orderNumber` in the request. If the request contains both parameters, `orderId` is a priority.

There are 3 sets of response parameters. These sets depend on "getOrderStatusExtended version" specified in merchant settings.

Response parameters for versions 01, 02,03:

The following parameters are returned regardless *getOrderStatusExtended* version.

Name	Type	Mandatory	Description
orderNumber	AN..32	yes	Number (identifier) of the order in the merchant's system.
orderStatus	N2	no	Order status in the payment gate. The value is selected from the variants listed below. Absent, if no matching order was found.
actionCode	N3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description on the language passed in the parameter "Language".
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error in the language sent in the Language parameter of the request.
amount	N..20	yes	Order amount in minimal currency units (e.g. cents).
currency	N3	no	Code of the payment currency, according to ISO 4217. If not specified, assumed to be 810 (Russian rubles).
date	ANS	yes	Date of order registration.
orderDescription	AN..512	no	Free-formed description of the order.
ip	N..	yes	IP address of the user who payed for the order.

Element *merchantOrderParams* is present in the reponse if the order contains merchant additional parameters. Each additional parameter is described in a separate block by the following fields:

name	AN..20	no	Name of additional parameter
value	AN..1024	no	Value of additional parameter

Element *cardAuthInfo* has structure which includes the list of element *secureAuthInfo* and the following fields:

pan	N..19	no	Masked number of the card that was used in payment. Specified only for paid orders.
expiration	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.
cardholderName	A..64	no	Cardholder name. Specified only for paid orders.
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.

Element *secureAuthInfo* (includes *eci* parameter and element *threeDSInfo* with parameters *cavv* and *xid*):

eci	N..4	no	Electronic Commerce Indicator. Set just after the payment order in the case of a permit.
cavv	ANS..200	no	Cardholder Authentication Verification Value. Set just after the payment order in the case of a permit
xid	ANS..80	no	Electronic Commerce Transaction Identifier. Set just after the payment order in the case of a permit.

Element *bindingInfo* consists of the following fields:

clientId	AN..255	no	Client number (ID) in the shop system, transferred during the order registration. Presents only if a shop is allowed to create links.
bindingId	AN..255	no	The identifier of a link created during order payment or used for payment. Presents only if a shop is allowed to create links.

Response parameters for versions 02, 03:

If *getOrderStatusExtended* version is 02 or higher, the following parameters are also returned along with parameters described above.

Name	Type	Mandatory	Description
authDateTime	ANS	no	Authorisation date and time
authRefNum	AN..24	no	Reference number
terminalId	AN..10	no	Terminal Id

Response parameters for version 03:

If *getOrderStatusExtended* version is 03, the following parameters are also returned along with parameters described above.

Name	Type	Mandatory	Description
Element <i>paymentAmountInfo</i> consists of the following fields:			
approvedAmount	N..20	no	Amount hold on the client's card (only for two-phase payments)
epositedAmount	N..20	no	Amount confirmed for deposit
refundedAmount	N..20	no	Refund amount
paymentState	N2	no	Payment state
Element <i>bankInfo</i> consists of the following fields:			
bankName	AN..200	no	Name of issuing bank
bankCountryCode	AN..4	no	Code of issuing bank country
bankCountryName	AN..160	no	Country of issuing bank in language specified in language parameter or in user language if language parameter is empty

The **orderStatus** field may have the following statuses:

State number	Description
0	Order registered, but not paid off
1	Pre-authorisation amount was held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the issuer's ACS initiated
6	Authorization declined

Error codes (values of the **errorCode** field):

Value	Description
0	No system error
1	Expected [orderId] или [orderNumber]
2	The order is declined because of an error in the payment credentials
5	Access denied
5	The user must change his password
6	Order not found
7	System error

GET Request example:

```
https://web.rbsuat.com/ab/rest/getOrderStatusExtended.do?userName=userName  
&password=password&orderId=285b2973-4d02-4980-a54e-57c4d0d2xxx9&language=ru
```

POST Request example:

```
orderId=285b2973-4d02-4980-a54e-57c4d0d2xxx9&language=ru
```

Response example:

```
{ "attributes": [], "date": 1342007119386, "currency": "810", "amount": 100, "actionCode": 0, "orderNumber": "1212x31334z15", "orderDescription": "test", "orderStatus": 2, "ip": "217.12.97.50", "actionCodeDescription": "", "merchantOrderParams": [], "cardAuthInfo": { "expiration": "201512", "pan": "411111**1111", "approvalCode": "123456", "cardholderName": "dsdqdqd", "secureAuthInfo": { "eci": 5, "threeDSInfo": { "cavv": "AAABCpEAUBNCAHEgBQAAAAAAAAA=", "xid": "MDAwMDAwMDEzNDIwMDcxMTk3Njc=" } } } }
```

7.3.7. 3DS enrolled verification request

To inquire about state of 3DS enrolled verification, use the `verifyEnrollment` request.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	User password (API)
password	AN..30	yes	User password (API)
pan	N12...19	yes	Card number.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Code of the error.
errorMessage	AN..512	no	Description of the ErrorCode error.
enrolled	A1	no	3ds enrolled attribute. Available values: Y, N, U.
emitterName	AN..160	no	Name of the issuer bank
emitterCountryCode	AN..4	no	Country code of the issuer bank

Possible codes for errors (the errorCode field):

Value	Description
0	No system error
1	PAN not specified
1	PAN must be a number from 12 to 19 digits
5	The user must change his password
5	Access denied
6	No info found for specified PAN.
7	System error.

GET request example::

```
https://test.paymentgate.ru/testpayment/rest/verifyEnrollment.do?
userName=api&password=***&pan=4111111111111111
```

POST request example:

```
pan=4111111111111111
```

Response example:

```
{"errorCode":"0", "errorMessage":"Успешно", "emitterName":"TEST CARD", "emitterCountryCode":"RU", "enrolled":"Y"}
```

7.3.8. Payment statistics for a specified period

`getLastOrdersForMerchants.do` method allows you to obtain statistics on payments for a certain period.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration..
password	AN..30	yes	Merchant's login received during registration..
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the merchant's settings. Error messages returned will be written in this very language.
page	N	no	The result of the request processing is a report divided into pages (each page contains <i>size</i> records). The response will return a page at number specified in this parameter. Page numbering starts at 0. If <i>page</i> parameter is not specified in the request, the response will return page number 0.
size	N..3	yes	Number of records on one page (maximum value is 200).
from	ANS	yes	Date and time of the report period beginning. Format is YYYYMMDDHHmmss.
to	ANS	yes	Date and time of the report period end. Format is YYYYMMDDHHmmss.
transactionStates	A..9	yes	This block is designed to specify order states you need to be included into the report. Several values should be separated by comma. Possible values: CREATED, APPROVED, DEPOSITED, DECLINED, REVERSED, REFUNDED.
merchants	ANS	yes	List of merchant Logins. Only transactions of specified merchants will be included into the report. Several values should be separated by comma. Leave this field empty to receive transactions of all available merchants (which includes child merchants and merchants specified as viewable in user settings).
searchByCreateDate	boolean	no	Possible values: <ul style="list-style-type: none">• <code>true</code> – search for orders by date of order creation.• <code>false</code> – search for orders by date of <u>payment</u> (thus orders in state <code>CREATED</code> и <code>DECLINED</code> can not be present in the report). Default value – <code>false</code> .

Response parameters:

Name	Type	Mandatory	Description
errorCode	N..2	yes	Code of the error that occurred in the course of the report processing. Description of possible codes is represented in the table below - "Possible codes for errors (the <code>errorCode</code> field)".
errorMessage	AN..512	no	Description of the error. Present only in case of error (<code>errorCode</code> is not 0).
orderStatuses			Block containing data on orders in the report. See the table below - "Parameters of <code>orderStatuses</code> tags".
totalCount	N	yes	Total account of orders in the report (on all pages).
page	N	yes	The number of the current page (it is equal to the <i>page</i> parameter, transferred in the request).
pageSize	N..3	yes	Maximum number of orders on one page of the report (it is equal to the <i>size</i> parameter, transferred in the request).

Parameters of `orderStatuses` tags:

Name	Type	Mandatory	Description
orderNumber	AN..32	yes	Order number (identifier) in the merchant's system
orderStatus	N..2	yes	State of the order in the payment gate. The value is selected from the list below. Possible values are represented in the table below - "The <code>orderStatus</code> field".
actionCode	N..3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description in the language specified in the parameter <i>language</i> of the request.
amount	N..20	yes	Order amount in minimal currency units.
currency	N3	yes	Code of the payment's currency (according to ISO 4217).If not specified, assumed to be default currency.
date	ANS	yes	Date of order registration.

orderDescription	AN..512	no	Free-formed description of the order from the order registration request.
ip	AN..20	no	IP address of the payer.
errorCode	N..2	yes	Error code.
merchantOrderParams		no	Tag with attributes, used to pass merchant additional parameters. See the table below - "Parameters of merchantOrderParams tag".
attributes		yes	Order attributes in the payment system (order number). See the table below - "Parameters of attributes tag".
cardAuthInfo		no	Tag with payment attributes. See the table below - "Параметры блока cardAuthInfo".
bindingInfo		no	Tag with information on binding used for payment. See the table below - "Parameters of bindingInfo tag".
authDateTime	ANS	no	Date and time of payment authorization.
terminalId	AN..10	no	Terminal ID.
authRefNum	AN..24	no	Reference number
paymentAmountInfo		no	Tag with information on approved amount, deposited amount and refund. See the table below - "Parameters of paymentAmountInfo tag".
bankInfo		no	Tag with information on Issuing Bank. See the table below - "Parameters of bankInfo tag"

Parameters of merchantOrderParams tag:

Name	Type	Mandatory	Description
name	AN..20	yes	Name of the merchant additional parameter.
value	AN..1024	yes	Value of the merchant additional parameter.

Parameters of attributes tag:

Name	Type	Mandatory	Description
name	A7	yes	Attribute name - "mdOrder".
value	ANS36	yes	Attribute value - order identifier in the payment system (unique in the system).

Parameters of cardAuthInfo tag:

Name	Type	Mandatory	Description
pan	N..19	no	Masked number of the card that was used for payment.
expiration	N6	no	Card expiration date in the YYYYMM format.
cardholderName	A..64	no	Cardholder name.
approvalCode	AN6	no	IPS authorization code. The field has fixed length of six characters, it can contain both numbers and letters.

Parameters of bindingInfo tag:

Name	Type	Mandatory	Description
clientId	AN..255	no	Client number (ID) in the merchant system.
bindingId	AN..255	no	Identifier of the binding used for payment.

Parameters of paymentAmountInfo tag:

Name	Type	Mandatory	Description
paymentState	N..9	no	Payment state.

approvedAmount	N..20	no	Amount confirmed for deposit.
depositedAmount	N..20	no	Deposited amount.
refundedAmount	N..20	no	Refund amount.

Parameters of `bankInfo` tag:

Name	Type	Mandatory	Description
bankName	AN..200	no	Name of the Issuing Bank .
bankCountryCode	AN..4	no	Code of the Issuing Bank country.
bankCountryName	AN..160	no	Country of the Issuing Bank in language specified in <code>language</code> parameter or in user language if <code>language</code> parameter is empty.

The `orderStatus` field may have the following statuses:

Value	Description
0	The order is registered, but it is not paid yet.
1	Pre-authorisation amount is held (for two-phase payment)
2	The amount was deposited successfully
3	Authorization reversed
4	Transaction was refunded
5	Authorization through the Issuer's ACS initiated.
6	Authorization declined

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
5	Mandatory field is empty
5	Value of <code>transactionStates</code> parameter is invalid
5	Access denied
7	System error
10	Parameter <code>size</code> exceeds maximum value
10	Uninsufficient rights to view transactions of specified merchant.

GET request example:

```
https://web.rbsuat.com/ab/rest/getLastOrdersForMerchants.do?userName=userName&password=password&language=en&page=0&size=100&from=20141009160000&to=20141111000000&transactionStates=DEPOSITED,REVERSED&merchants=SevenEightNine&searchByCreatedDate=true
```

POST request example:

```
language=en&page=0&size=100&from=20141009160000&to=20141111000000&transactionStates=DEPOSITED,REVERSED&merchants=SevenEightNine&searchByCreatedDate=true
```

Response example:

```
{ "errorCode": 0,

  "orderStatuses": [

    { "errorCode": "0", "orderNumber": "58drs0Pes459Hdsddd0567a0", "orderStatus": 2,
      "actionCode": 0, "actionCodeDescription": "Request processed successfully", "amount": 250000, "currency": "810", "date": 1414485649233, "orderDescription": "Opisanie", "ip": "212.5.125.194", "merchantOrderParams": [{ "name": "registr1", "value": "registr1" }], "attributes": [{ "name": "mdOrder", "value": "f1a3365b-542c-4c8d-b34c-e9a7ee8dbc9c" }], "cardAuthInfo": { "expiration": "201512", "cardholderName": "Ivan", "approvalCode": "123456", "pan": "411111**1111" }, "bindingInfo": { "clientId": "666", "bindingId": "leabfb8e-b90e-4dc8-bef6-14bd392blcec" }, "authDateTime": 1414485661207, "terminalId": "111113", "authRefNum": "111111111111", "paymentAmountInfo": { "paymentState": "DEPOSITED", "approvedAmount": 250000, "depositedAmount": 250000, "refundedAmount": 0 }, "bankInfo": { "bankName": "TEST CARD", "bankCountryCode": "RU", "bankCountryName": "Russian Federation" } },

    { "errorCode": "0", "orderNumber": "57drs0Pes459Hdsddd0567a0", "orderStatus": 2,
      "actionCode": 0, "actionCodeDescription": "Request processed successfully", "amount": 250000, "currency": "810", "date": 1414485277286, "orderDescription": "Opisanie", "ip": "212.5.125.194", "merchantOrderParams": [{ "name": "registr1", "value": "registr1" }], "attributes": [{ "name": "mdOrder", "value": "09489184-bc5e-44a7-b6c4-3ca1feb8ef69" }], "cardAuthInfo": { "expiration": "201512", "cardholderName": "Ivan", "approvalCode": "123456", "pan": "411111**1111" }, "bindingInfo": { "clientId": "666", "bindingId": "leabfb8e-b90e-4dc8-bef6-14bd392blcec" }, "authDateTime": 1414485296046, "terminalId": "111113", "authRefNum": "111111111111", "paymentAmountInfo": { "paymentState": "DEPOSITED", "approvedAmount": 250000, "depositedAmount": 250000, "refundedAmount": 0 }, "bankInfo": { "bankName": "TEST CARD", "bankCountryCode": "RU", "bankCountryName": "Russian Federation" } } ],

  "totalCount": 2, "page": 0, "pageSize": 100 }
```

7.3.9. Request to add a card number to the list of SSL-cards

The `updateSSLCardList.do` request allows merchant to add a number of a card used for payment to "SSL PAN list".

This method is available for merchant only at the agreement with the bank. In order to use this method the user must have access rights to work with fraud lists.

Request parameters:

Name	Type	Mandatory	Description
mdorder	ANS36	yes	Order number in the payment gate. Unique within the gate.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	no	Error code.
errorMessage	AN..512	no	Description of the error in the user default language.

Error codes (values of the `errorCode` field):

Value	Description
0	No system error
1	Access denied
2	The user must change his password
3	[mdorder] is not specified
4	There is no payment in the system or [mdorder] is incorrect
6	The card number is already present in the list
7	System error

Request example:

```
https://web.rbsuat.com/ab/rest/updateSSLCardList.do?mdorder=a4d7d5e5-441d-401c-b25e-bd5d9fffe227&userName=987&password=111111
```

Response example:

```
{"errorCode": "0", "errorMessage": ""}
```

8. Payment interface design


File with pages of payment interface must be a ZIP archive that contains pages and folders with js scripts, css styles and images in its root folder. An example of the archive with payment interface pages could be provided by Bank.

It is advised to use the 7-zip archiver.

8.1. Requirements to the payment interface pages

The page (payment page, error page) should comply with XHTML standards, with a mandatory DTD declaration.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

 **Note!!!** XHTML declaration is mandatory, otherwise the payment page may not work properly in some browsers.

Any use of absolute URLs for linking additional resources (pictures, scripts, CSS) is prohibited. All necessary resources must be linked relatively (`http:host/images/test.jpg` – not allowed, `images/test.jpg` – correct).

The ZIP-archive must contain payment interface pages, that are intended for displaying on PC monitors. Names of these pages must match the following pattern (lower case):

- `payment_<locale>.html` – payment page;
 - `errors_<locale>.html` – error page.
- Where:
- `<locale>` – the page language in 2-alpha code according to ISO 639-1, e.g. `ru` for Russian and `en` for English.

Specific payment interface pages could be created for mobile devices in order to provide compact and high-quality displaying on mobile screens. These pages must also be included into the ZIP-archive. Names of the pages must be in lower case and match the following pattern:

- `mobile_payment_<locale>.html` – payment page for mobile devices;
 - `mobile_errors_<locale>.html` – error page for mobile devices.
- Where
- `<locale>` – the page language in 2-alpha code according to ISO 639-1, e.g. `ru` for Russian and `en` for English.

An arbitrary prefix may be added to the template part of the page name (see template below). It makes possible to specify necessary prefix in the `pageView` parameter of order registration request in order to redirect client to the corresponding page. Names of the pages must be in lower case and match the following pattern:

- `<prefix>_payment_<locale>.html` – payment page for a particular type of mobile device;
 - `<prefix>_errors_<locale>.html` – error page for a particular type of mobile device.
- Where:
- `<prefix>` – an arbitrary value (up to 20 characters, may include letters, number and symbol " _ "). If this value is sent in `pageView` parameter of the order registration request, then the payer will be redirected to the corresponding page.
 - `<locale>` – the page language in 2-alpha code according to ISO 639-1, e.g. `ru` for Russian and `en` for English.

A special parameter, `pageView`, in order registration requests indicates which type of pages (ordinary, mobile or pages with prefixes in their names) should be loaded for the client. Description of `pageView` parameter is represented in paragraphs "Order registration request" and "Order preauthorization request".

Payment interface archive may also contain the following pages:

- Payment page, that opens for a client if binding ID was sent in the registration request.

- Final page (if the merchant has an appropriate permission, a client will be redirected to the final page after a payment attempt).
- Page of check (check in pdf-format will be formed after a client press the appropriate button on the final page).

It is necessary to use Unicode (UTF-8) while creating pages of payment interface.

8.2. Payment page requirements

The page must contain a number of mandatory objects, as well as a set of fields with predefined names for entering payment information.

8.2.1. Page name

Name of the file of the ordinary page – `payment_<locale>.html`,

Name of the file of the mobile page – `mobile_payment_<locale>.html`,

Name of the file with the arbitrary prefix – `<prefix>_payment_<locale>.html`

Where:

- `<prefix>` – part of the page name that may be sent in `pageView` parameter of the order registration request in order to redirect the payer to the corresponding page.
- `<locale>` – the page language in 2-alpha code according to ISO 639-1, e.g. `ru` for Russian and `en` for English.

8.2.2. Page header

Header of the page should attach the following scripts:

Standard version:

```
<script type="text/javascript" src="../../js/jquery-1.8.1.min.js"></script>

<script type="text/javascript"
src="../../js/jquery.timers-1.2.js"></script>
<script type="text/javascript" src="../../js/jquery.url.js"></script>
<script type="text/javascript"
src="../../js/jquery.payment_new.js"></script>
<script>
$(document).payment({
});
</script>
```

Extended version:

```

<script type="text/javascript" src="../../../js/jquery-1.8.1.min.js"></script>

<script type="text/javascript"
src="../../../js/jquery.timers-1.2.js"></script>
<script type="text/javascript" src="../../../js/jquery.url.js"></script>
<script type="text/javascript"
src="../../../js/jquery.payment_new.js"></script>
<script>
$(document).payment({
  language: "ru",
  messageAjaxError: " . . .",
  messageTimeRemaining: " #MIN#:#SEC#",
  visualValidationEnabled: true,
  agreementCheckboxEnabled: true,
  bindingCheckboxEnabled: true,
  getFeeEnabled: true
});
</script>

```

Fields of the scripts should be filled accordingly:

- `language` — language code, the same as in the name of the page file;
- `messageAjaxError` — message about internal AJAX error (appears, for example, when the system is inaccessible).
- `messageTimeRemaining` — session counter description. It must contain keywords "`#MIN#`" and "`#SEC#`" that in a browser will be swapped for minutes and seconds of the time left until the end of the session.
- `visualValidationEnabled` - switch on/off of visual confirmation of validation results. With `true` value: if the value entered into the field is correct, the field is highlighted with green colour; if the value is incorrect, the field is highlighted with red colour. With `false` value or absence of this string: visual validation is switched off, fields do not change their colour.
- `agreementCheckboxEnabled` – switch on/off of merchant offer checkbox. `True` value switches on the validation of checkbox tick, that confirms the client's agreement to pay.
- `bindingCheckboxEnabled` – switch on/off of possibility to save card details.
- `getFeeEnabled` – switch on/off of payment commission displaying.

8.2.3. Page body

8.2.3.1. Mandatory elements on the payment page

All blocks and controls described in this section must be present in the body of the payment page.

```
<div id="orderNumber"></div>
```

block with the unique order number;

```
<div id="amount"></div>
```

block with the order payment amount;


```
<div id="feeAmount"></div>
```

block with commission amount;

```
<div id="description"></div>
```

block with the description of the order.

The page must contain the payment form:

```
<form name="PaymentForm" action="#" method="post" id="formPayment">
  <input type="hidden" id="expiry" >
  <input type="hidden" id="mdOrder" >
  <input type="hidden" id="location" value="/../" >
  <input type="hidden" id="language" value="<locale>" >
</form>
```

All hidden fields listed above are mandatory. Value of the field "language" should contain 2-alpha code of the page's language (ISO 639-1).

The form should also contain fields for entering data for the payment:

```
<input name="$PAN" id="iPAN" maxlength="19" type="text" autocomplete="off"
/>
```

a field for card number input;

```
<select name="MM" id="month">
  <option value="01" selected> 1 - </option>
  <option value="02"> 2 - february</option>
  <option value="03"> 3 - march</option>
  <option value="04"> 4 - april</option>
  <option value="05"> 5 - may</option>
  <option value="06"> 6 - june</option>
  <option value="07"> 7 - july</option>
  <option value="08"> 8 - august</option>
  <option value="09"> 9 - september</option>
  <option value="10">10 - october</option>
  <option value="11">11 - november</option>
  <option value="12">12 - december</option>
</select> /
<select name="YYYY" id="year">
  <option value='2012' selected>2012</option>
  <option value='2013'>2013</option>
  <option value='2014'>2014</option>
  <option value='2015'>2015</option>
  <option value='2016'>2016</option>
  <option value='2017'>2017</option>
  <option value='2018'>2018</option>
  <option value='2019'>2019</option>
  <option value='2020'>2020</option>
  <option value='2021'>2021</option>
  <option value='2022'>2022</option>
</select>
```

2 dropdown lists for month and year of the card's expiry date. These fields are filled in automatically as the page is loaded;

```
<input name="TEXT" id="iTEXT" maxlength="90" type="text" autocomplete="off"
/>
```

a field for the cardholder name;

```
<input name="$CVC" id="iCVC" maxlength="4" type="password"
autocomplete="off" />
```

a field for CVC/CVV;

```
<input value="SendPayment2" type="button" id="buttonPayment">
```

a button for payment confirmation.

The following code must be placed below the payment form:

```
<form id="acs" method="post" action="">
  <input type="hidden" id="MD" name="MD" />
  <input type="hidden" id="PaReq" name="PaReq" />
  <input type="hidden" id="TermUrl" name="TermUrl" />
</form>
```

The payment page must also contain the following objects:

```
<div id="errorBlock" style="color:red;"></div>
```

block for displaying error messages (e.g. wrong data on the card);

```
<div id="numberCountdown"></div>
```

block with the message about time left until the end of the payment session;

```
<div id="infoBlock"></div>
```

block for displaying an information message when the user comes to the payment results page;

```
<div id="indicator" style="display:none;"></div>
```

block with indicator of progress for the server request (during payment authorization and subsequent requests);

```
<label class="ch-wrap"><input type="checkbox" class="checkbox"
id="createBinding"> </label>
```

block with condition to save card details of this payment. The header must contain `bindingCheckboxEnabled: true`.

```
<label><input type="checkbox" class="checkbox" id="iAgree"> <br><a  
href="#">-</a></label>
```

block with information on merchant offer. The payment is unavailable until the client checked the field confirming his agreement. The header must contain `agreementCheckboxEnabled: true`.

When all requirements are met for payment of the order on the payment page will be displayed:

- order amount;
- commission;
- number (identifier) of the order in the merchant's system;
- block with condition to save card details of this payment;
- block with information on merchant offer;
- order description (only displayed when filling out the field description);
- field for payer's email.

8.2.3.2. Additional elements on the payment page

8.2.3.2.1. Notification of the client about transaction

If functionality of notification of the payer about deposit/reversal/refund/decline is enabled, you need to add the following block:

```
<input type="text" id="email"/>
```

a field for payer's email.

8.2.3.2.2. Displaying of payment parameters

To display payment parameters on the payment page, use the following blocks:

```
<tr valign="top" id="Parameter_name">  
  <td valign="top">
```

where `Parameter_name` may be one of the following values:

- `amount` - order amount in the minimum units;
- `amountFormatted` - order amount formatted (with a thousands separator and decimal point);
- `approvedAmount` - held amount;
- `approvedAmountFormatted` - held amount formatted (with a thousands separator and decimal point);
- `currency` - three-digit code of the currency;
- `currencyName` - three-letter code of the currency;
- `date` - date of payment completion, dd.MM.yyyy HH:mm:ss;
- `depositedAmount` - deposited amount;
- `depositedAmountFormatted` - deposited amount formatted (with a thousands separator and decimal point);
- `depositFlag` - flag of two-phase transaction;

- `ipCountryCode` - code of payer's country;
- `mdorder` - order number in the payment system;
- `mdOrder` - order number in the payment system;
- `merchantFullName` - merchant's full name;
- `merchantLogin` - merchant's login;
- `orderDescription` - order description;
- `orderNumber` - order number in the merchant system;
- `panCountryCode` - code of the country of the payer's card;
- `paymentState` - payment state (started / payment_approved / payment_declined / payment_void/payment_deposited / refunded);
- `paymentWay` - payment way;
- `processingId` - merchant identifier in the processing;
- `terminalId` - terminal ID.

8.2.3.2.3. Displaying of order additional parameters

In order to add any additional parameters use `queriedParams`. It is necessary to add `paramNames` into the header of the payment page. Parameter to be displayed must be specified in square brackets separated by comma:

```
$(document).payment({
  paramNames:[parameter_name1, parameter_name2, parameter_name3]
});
```

To display a parameter on the page, you need to add an element with `id` equal to parameter name. If the parameter contains a link, you need to add element `A` with the same `id`:

```
<div id=" parameter_name1"></div>
<a href="#" id="parameter_name2"></div>
```

Example:

To display a link to the merchant site it is necessary to:

1. Add the following to the payment page:

- Script:

```
<script>
$(document).payment(
{ paramNames:[ 'backUrl' ] }
);
</script>
```

- Element of a link type with the same `id` as specified above in `paramNames`:

```
<a href="#" id="backUrl">Back to merchant site</a>
```

2. Send a link as additional parameter `backUrl` of order registration request (`jsonParams` of REST request; in `params` tag of SOAP request).

8.2.3.3. Validation of card details

To display for a Payer the process of card details validation, the payment page must contain the following code:

1. `.valid`
`{ border: 1px solid #088A08; background-color: #CEF6CE; }`
`.invalid`
`{ border: 1px solid #8A0808; background-color: #F6CECE; }`
2. `visualValidationEnabled:true,`
3. `id="IPAN", id="ICVC", id="ITEXT", id="month", id="year`

8.3. Payment page requirements if binding ID was sent in the registration request

If the order registration request contained `bindingId`, the payer will be redirected to a payment page, where entering of CVC only is required.

8.3.1. Page name.

Name of the file of the page – `payment_binding_<locale>.html`,

Where:

- `<locale>` – the page language in 2-alpha code according to ISO 639-1, e.g. `ru` for Russian and `en` for English.

8.3.2. Page header.

Header of the page should attach the following scripts:

```
<script type="text/javascript" src="../../js/jquery-1.4.2.min.js"></script>

<script type="text/javascript"
src="../../js/jquery.timers-1.2.js"></script>
<script type="text/javascript" src="../../js/jquery.url.js"></script>
<script type="text/javascript"
src="../../js/jquery.payment_binding.js"></script>
<script type="text/javascript">
$(document).payment_binding({
visualValidationEnabled:true
});
$(document).ready(function () {
$(document).payment_binding("validate");
$(document).payment_binding("showError", "");
});
</script>
```

8.3.3. Page body.

Optional fields:

```
<div id="orderNumber"></div>
```

block with the unique order number.

```
<div id="amount"></div>
```

block with the order payment amount.

```
<div id="description"></div>
```

block with order description.

```
<div id="maskedPan"></div>
```

block with masked card number.

The page must contain the payment form:

```
<form action="" method="post" id="bindingPaymentForm">
```

The form should also contain fields for entering data for the payment:

```
<input name="$CVC" id="cvc" maxlength="3" type="password"  
autocomplete="off" />
```

field for entering of cvc/cvv/cid -code.

```
<input value="" type="button" id="sendPayment">
```

a button for payment confirmation.

The following code must be placed below the payment form:

```
<form id="acs" method="post" action="">
  <input type="hidden" id="md" name="MD"/>
  <input type="hidden" id="paReq" name="PaReq"/>
  <input type="hidden" id="termUrl" name="TermUrl"/>
</form>
```

The payment page must also contain the following objects:

```
<div id="errorBlock" style="color:red;"></div>
```

block for displaying error messages.

```
<div id="countdown"></div>
```

block with the message about time left until the end of the payment session.

```
<div id="infoBlock"></div>
```

block for displaying an information message when the user comes to the payment results page;

```
<div id="indicator" style="display:none;"></div>
```

block with indicator of progress for the server request block with indicator of progress for the server request.

8.4. Error page requirements

The page must contain a number of mandatory objects.

8.4.1. Page name

Name of the file of the ordinary page – error_<locale>.html,

Name of the file of the mobile page – mobile_error_<locale>.html,

Name of the file of the page for a particular mobile device – <prefix>_error _<locale>.html

Where:

- <prefix> – part of the page name that may be sent in `pageView` parameter of the order registration request in order to redirect the payer to the corresponding page.
- <locale> – the page language in 2-alpha code according to ISO 639-1, e.g. `ru` for Russian and `en` for English.

8.4.2. Page header

Page header should link the following scripts:

```
<script type="text/javascript" src="../../js/jquery-1.4.2.min.js"></script>

<script type="text/javascript"
src="../../js/jquery.timers-1.2.js"></script>
<script type="text/javascript" src="../../js/jquery.url.js"></script>
<script type="text/javascript" src="../../js/error_page.js"></script>
```

```
<script type="text/javascript">
var lang = "<locale>";
</script>
```

, where <locale> is the 2-alpha code of page locale (ISO 639-1).

8.4.3. Page body

All blocks and controls described below must be put in the page body.

Form:

```
<form name="errorForm" action="#" method="post" id="errorForm">
<input type="hidden" id="language" value="<locale>" type="hidden">
</form>
```

, where <locale> is the 2-alpha code of page locale (ISO 639-1).

The form should also contain a block where error messages are displayed (for example, about expired session or payment confirmation).

```
<div id="errorBlock" style="color:red;"></div>
```

8.5. Requirements to final page design

If the merchant has an appropriate permission, a client will be redirected to the final page after a payment attempt

8.5.1. Page name

Page name – `finish.html`.

8.5.2. Page header

Header of the page should attach the following scripts:

```
<script type="text/javascript" src="../../js/jquery-1.9.1.min.js"></script>
<script type="text/javascript"
src="../../js/jquery-ui-1.9.2.custom.min.js"></script>
<script type="text/javascript" src="../../js/select.js"></script>
<script type="text/javascript" src="../../js/maskedinput.js"></script>
<script type="text/javascript"
src="../../js/jquery.finish.main.js"></script>
<script type="text/javascript"
src="../../js/jquery.finishpayment.js"></script>
<script type="text/javascript" src="../../js/jquery.url.js"></script>
<script type="text/javascript" src="../../js/localization.js"></script>

<script type="text/javascript">
$(document).paymentFinished();
$( document ).ready(function() {
    var logo = $(".user-logo");
    function isLogoImg(logodiv){
        var img = new Image();
        img = logodiv.find(".bg");
        img.error(function(){
            logodiv.remove();
        });
        img.load(function(){
            logodiv.find(".title-logo").remove();
        });
    }
    isLogoImg(logo);
});
localizePage();
</script>
```

8.5.3. Page body

`span` elements are used in page desing:

```
<span langLbl="<LOCALIZE_PROPERTY>">
```

Values of <LOCALIZE_PROPERTY> could be seen in localization.js

Also div elements are used in page desing:

```
<div id="<PROPERTY>"></div>
```

, where <PROPERTY> – order parameter. Possible values:

- status – order status;
- paymentDate – pament date;
- orderNumber – order number in the payment system;
- approvalCode – payment authorization code in IPS;
- terminalId – terminal identifier;
- refNum – reference number;
- amount – order amount;
- formattedAmount – formatted amount of the order (with thousands and decimal separator);
- feeAmount – fee amount;
- formattedFeeAmount – formatted fee amount (with thousands and decimal separator);
- currency – payment currency;
- panMasked – masked pan number;
- expiry – expiry date;
- cardholderName – card holder name;
- orderDescription – order description;
- merchantShortName – merchant name;
- merchantFullName – merchant full name;
- merchantUrl – merchant URL;
- actionCodeDescription – description of code received from processing;
- orderParams.<ADDITIONAL_PARAM> – use to display values of additional parameters of transaction, where <ADDITIONAL_PARAM> – name of additional parameter.

The following elements also could be placed on the final page:

Element of return to the merchant from the final page:

```
<a class="back-btn" href="#"><span langLbl="backToShop"> </span></a>
```

Element of PDF file generation:

```
<a class="pdf" href="#"><span langLbl="saveToPDF"> PDF</span></a>
```

Scrollbar:

```

<div class="load-wrapper">
  <div class="bg"></div>
  <div class="clock"><span class="hour"></span><span
class="minute"></span></div>
</div>

```

8.6. Requirements to check page

The client receives this page as a PDF file after he press "Save as PDF" on the final page.

8.6.1. Page name

Page name (successful payment) – `finish_template_success_<locale>.html`.

Page name (payment declined) – `finish_template_error_<locale>.html`.

Where:

- `<locale>` – the page language in 2-alpha code according to ISO 639-1, e.g. `ru` for Russian and `en` for English.

8.6.2. Requirement to page dising

JavaScript should not be used while create this page.

Name of order parameters should be specified in the following way:

```
$ { <PROPERTY> }
```

, where `<PROPERTY>` – name of order parameter. Possible values:

- `status` – order status;
- `paymentDate` – pament date;
- `orderNumber` – order number in the payment system;
- `approvalCode` – payment authorization code in IPS;
- `terminalId` – terminal identifier;
- `refNum` – reference number;
- `amount` – order amount;
- `formattedAmount` – formatted amount of the order (with thousands and decimal separator);
- `feeAmount` – fee amount;
- `formattedFeeAmount` – formatted fee amount (with thousands and decimal separator);
- `currency` – payment currency;
- `panMasked` – masked pan number;
- `expiry` – expiry date;
- `cardholderName` – card holder name;
- `orderDescription` – order description;
- `merchantShortName` – merchant name;
- `merchantFullName` – merchant full name;
- `merchantUrl` – merchant URL;
- `actionCodeDescription` – description of code received from processing;
- `orderParams.<ADDITIONAL_PARAM>` – use to display values of additional parameters of transaction, where `<ADDITIONAL_PARAM>`

– name of additional parameter.

9. Address data for connections

Employees of a merchant can access the console or make API requests using logins and passwords of a user associated with the merchant.

Description of the test service (WSDL) can be found at the address <https://test.paymentgate.ru/testpayment/webservices/merchant-ws?wsdl>.

URLs for access to REST methods:

Method name	URL
Order registration	https://test.paymentgate.ru/testpayment/rest/register.do
Preauthorized order registration	https://test.paymentgate.ru/testpayment/rest/registerPreAuth.do
Request for order completion	https://test.paymentgate.ru/testpayment/rest/deposit.do
Order reversal request	https://test.paymentgate.ru/testpayment/rest/reverse.do
Refund request	https://test.paymentgate.ru/testpayment/rest/refund.do
Request for status of an order	https://test.paymentgate.ru/testpayment/rest/getOrderStatus.do
Request for extended status of an order	https://test.paymentgate.ru/testpayment/rest/getOrderStatusExtended.do
3DS enrolled verification request	https://test.paymentgate.ru/testpayment/rest/verifyEnrollment.do
Payment statistics for a specified period	https://test.paymentgate.ru/testpayment/rest/getLastOrdersForMerchants.do
Request to add a card number to the list of SSL-cards	https://test.paymentgate.ru/testpayment/rest/updateSSLCardList.do

"mpi-host" is a stub for the production server address, it should be replaced with the domain provided by the bank.

10. Test cards

В качестве Cardholder name (Имя владельца карты) указывайте от 2 слов в английской раскладке. / Use two or more words in Roman letters as the name of the cardholder.

Для всех карт, вовлечённых в 3-D Secure (veres=y, pares=y или a) пароль на ACS: 12345678. / For cards involved into 3-D Secure (veres=y, pares=y or a) ACS password is 12345678.

Тестовая среда не предназначена для нагрузочного тестирования - в случае необходимости проведения такого тестирования ТСП должно обратиться в Банк.

Тестовые карты / Test cards:

pan: 4111 1111 1111 1111
exp date: 2019/12
cvv2: 123
3dsecure: veres=y, pares=y

pan: 5100 0000 0000 0008
exp date: 2017/12
cvv2: 123
3dsecure: veres=y, pares=y

pan: 6011 0000 0000 0004
exp date: 2019/12
cvv2: 123
3dsecure: veres=y, pares=y

pan: 6390 0200 0000 000003
exp date: 2019/12
cvv2: 123(необязательный параметр)

3dsecure: veres=y, pares=a

pan: 5555 5555 5555 5599
exp date: 2019/12
cvv2: 123
3dsecure: veres=n

pan: 4444 0000 0000 1111
exp date: 2019/12
cvv2: 123
3dsecure: veres=n

pan: 2200 0000 0000 0004
exp date: 2019/12
cvc: 123
3dsecure: veres=n

pan: 2200 0000 0000 0012
exp date: 2019/12
cvc: 123
3dsecure: veres=y pares=n

pan: 2200 0000 0000 0020
exp date: 2019/12
cvc: 123
3dsecure: veres=u

pan: 2200 0000 0000 0038
exp date: 2019/12
cvc: 123
3dsecure: veres=y pares=u

pan: 2200 0000 0000 0046
exp date: 2019/12
cvc: 123
3dsecure: veres=y pares=a

pan: 2200 0000 0000 0053
exp date: 2019/12
cvc: 123
3dsecure: veres=y pares=y

Карта МИР

pan: 2200 0000 0000 0053
exp date: 2019/12
cvv2: 123
3dsecure: VeRes=Y, PaRes=Y

Карта МИР

pan: 2200 0000 0000 0046
exp date: 2019/12
cvv2: 123
3dsecure: VeRes=Y, PaRes=A

Карта МИР

pan: 2200 0000 0000 0012
exp date: 2019/12
cvv2: 123
3dsecure: VeRes=Y, PaRes=N

Карта МИР

pan: 2200 0000 0000 0038
exp date: 2019/12
cvv2: 123
3dsecure: VeRes=Y, PaRes=U

Карта МИР

pan: 2200 0000 0000 0020
exp date: 2019/12
cvv2: 123
3dsecure: VeRes=U

Карта МИР

pan: 2200 0000 0000 0004
exp date: 2019/12
cvv2: 123
3dsecure: VeRes=N

Карты, возвращающие ошибки /
Cards returning errors:

pan: 5555 5555 5555 5557
exp date: 2019/12
cvv2: 123
3dsecure: veres=y, pares=u

pan: 4444 3333 2222 1111
exp date: 2019/12
cvv2: 123
3dsecure: veres=y, pares=u

Declined. PaRes status is U (-2011)

pan: 4000 0000 0000 0002
exp date: 2019/12
cvv2: 123
3dsecure: veres=u

pan: 5555 5555 4444 4442
exp date: 2019/12
cvv2: 123
3dsecure: veres=u

Declined. VeRes status is U (-2016)

pan: 4444 4444 4444 4422
exp date: 2019/12
cvv2: 123

Invalid message format (913)

pan: 4444 4444 4444 4455
exp date: 2019/12
cvv2: 123

Card limitations exceeded (902)

pan: 4444 4444 4444 3333
exp date: 2019/12
cvv2: 123

Limit exceeded (123)

pan: 4444 4444 4444 6666
exp date: 2019/12
cvv2: 123

BLOCKED_BY_LIMIT (-20010)

pan: 4444 4444 1111 1111
exp date: 2019/12
cvv2: 123

Network refused transaction (5)

pan: 4444 4444 9999 9999
exp date: 2019/12
cvv2: 123

TDSEC_COMM_ERROR (151017)

pan: 5432 5432 5432 5430
exp date: 2018/08
cvv2: 521

INSUFFICIENT_FUNDS (116)

11. Appendix 1. Binding functionality

11.1. Functionality description

This functionality is used to bind the card number to the buyer id in the merchant system (for example, to login). There are two ways of bindings use: [#displaying on the payment page](#) and [#sending of a request](#).

The first case, [#displaying on the payment page](#):

A user, after his authorization on the merchant site, performs a successful order payment by card. Then he create another order on this site under the same id. When the payment page opens it will be prompted to auto-complete all card details, except CVC/CVV.

The second case, [#sending of a request](#):

If a binding for a card exists, then during a payment you do not need to specify any card detail, just binding id is necessary.

In any case the payer has an opportunity to use another card for payment.

11.2. Displaying on the payment page. Form of binding choosing

If the merchant is supposed to use a binding functionality, the payment page may contain a form of binding choosing for payment.

The form must meet the following conditions:

- The form must have an identifier id = "formBinding".
- The form should be hidden by default using the CSS property "display: none;".
- The form must contain a bindings drop-down list with the name = "bindingId".
- The drop-down list should contain one option choice: <option value="" selected="selected">other</option>, when a user chooses to perform a standard payment without using a binding functionality.
- The form must have the input box CVC/CVV with name = "cvc".
- The form must contain the button "Pay": <input value="Accept" type="button" id="buttonBindingPayment"> with id = "buttonBindingPayment".
- The input field CVC/CVV and the button "Pay" must be framed by the elements with class="rbs_hidden". When you choose a payment without binding, these elements will be hidden by setting the CSS "display: none;".

An example of the form:

```
<form action="" id="formBinding" style="display: none;">
  <table cellpadding="10">
    <tbody>
      <tr valign="TOP">
        <td valign="top" width="50%" align="right">
          <span> :</span>
        </td>
        <td valign="top">
          <select name="bindingId">
            <option value="" selected="selected"></option>
          </select>
        </td>
      </tr>
      <tr class="rbs_hidden">
        <td align="right">
          <span> CVC2/CVV2/CID :</span><br>(on the back side of the card)
        </td>
        <td>
          <input name="cvc" maxlength="4" type="password" autocomplete="off" />
        </td>
      </tr>
      <tr class="rbs_hidden">
        <td> </td>
        <td valign="top" >
          <input value="" type="button" id="buttonBindingPayment">
        </td>
      </tr>
    </tbody>
  </table>
</form>
```

11.3. Requests with bindings

11.3.1. WebService interface

11.3.1.1. Payment by binding request

paymentOrderBinding request is used for performing the payment by bindings.

Request parameters:

Name	Type	Mandatory	Description
mdOrder	ANS36	yes	Order number in payment system. Is unique within payment system.
bindingId	ANS36	yes	The identifier of a link created during order payment or used for payment. Presents only if a shop is allowed to create links.
params		no	An additional tag with the attributes for passing additional parameters of the merchant.*
language	A2	no	Language in ISO 639-1 code. If it is not specified then the language which is specified in shop settings will be used by default (default language)
ip	NS15	yes	Customer IP address
cvc	N4	no	CVC cod. This parameter is mandatory, if the merchant does not have a permission "Can pay without CVC".
email	ANS..*	no	Customer E-mail address

* Fields of additional informaiton to be stored. These filds may be transferred to a bank processing in order to display them in registers.**

This functionality may be enabled under the agreement with the bank during the integration. To send N parameters, the request must contain N Params tags, where the name attribute contains the name and value attribute contains the value:

Name	Type	Mandatory	Description
name	AN..20	yes	Name of the additional parameter
value	AN..1024	yes	Value of the additional parameter

** Fields "orderNumber" and its "description" are sent to the bank processing by default (not more than 99 simbols, the following simbols are forbidden to use - %, +, \r, \n)

Response parameters:

Name	Type	Mandatory	Description
redirect	ANS..*	if there is no any errors	URL for redirection (SSL)/URL back with ACS (for 3DS)
info	ANS..*	yes	The result of the payment attempt. Possible values are represented below: <ul style="list-style-type: none">• Your order is proceeded, redirecting...• Operation declined. Please check the data and available balance of the card. Redirecting...• Sorry, payment cannot be complete. Redirecting...• Payment declined. Please, contact with merchant. Redirecting...• Payment declined. Please, contact with merchant. Redirecting...• Payment declined. Please, contact with your bank. Redirecting...• Payment declined. Please, contact with your bank. Redirecting...• Can't connect with your bank. Please, contact with your bank. Redirecting...• Processing timeout. Please, try again later. Redirecting...
errorCode	N1	yes	Completion code
errorMessage	ANS..*	in case of error	Description of the ErrorCode error
acsUrl	ANS..*	in case of 3DS payment	URL redirection to ACS
paReq	ANS..*	iin case of 3DS payment	Payment Authentication Request

Possible codes for errors (the errorCode field):

Value	Description
0	Successful
1	It is necessary to specify CVC2/CVV2, since the merchant does not have a permission to provide payments without CVC.
1	Incorrect CVC format
1	[mdOrder] is empty
1	[bindingId] is empty
1	Email address does not satisfy the pattern
1	Invalid language
2	No such order for specified user
2	Unknown binding
5	Access denied
5	User must change his password
5	Session is expired
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:paymentOrderBinding>
      <order mdOrder="9213bc5f-5d5b-43d6-a408-b6b93cdde992"
        bindingId="ca91a4ab-b6d4-495d-b606-8fb0114e679e" language="ru"
        ip="127.0.0.1" cvc="123" email=" ">
        <!--Zero or more repetitions-->
        <params name=" " value=" "/>
      </order>
    </mer:paymentOrderBinding>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:paymentOrderBindingResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0" info="Your order is proceeded,
redirecting..."

      redirect="http://example.ru?orderId=9213bc5f-5d5b-43d6-a408-b6b93cdde992"/>

    </ns1:paymentOrderBindingResponse>
  </soap:Body>
</soap:Envelope>

```

11.3.1.2. Unbind card request

Use `unBindCard` request to deactivate binding.

Request parameters:

Name	Type	Mandatory	Description
bindingId	ANS36	yes	Identifier of the binding created with payment or used for payment. It can exist only if the merchant is allowed to use bindings

Response parameters:

Name	Type	Mandatory	Description
errorCode	N1	yes	Completion code
errorMessage	ANS..*	in case of error	Description of the error

Possible codes for errors (the `errorCode` field):

Value	Description
5	Access denied
5	User must change his password
2	Binging isn't active
2	Binding doesn't exist
7	System error

Request example:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

  xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
    <soapenv:Header/>
    <soapenv:Body>
      <mer:unBindCard>
        <bindingId>fd3afc57-c6d0-4e08-aaef-1b7cfefb093dc</bindingId>
      </mer:unBindCard>
    </soapenv:Body>
  </soapenv:Envelope>

```

Response example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:unBindCardResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="2" errorMessage="Binging isn't active"/>
    </ns1:unBindCardResponse>
  </soap:Body>
</soap:Envelope>

```

11.3.1.3. Bind card request

Use bindCard request to activate binding deactivated earlier.

Request parameters:

Name	Type	Mandatory	Description
bindingId	ANS36	yes	Identifier of the binding created with payment or used for payment. It can exist only if the merchant is allowed to use bindings

Response parameters:

Name	Type	Mandatory	Description
errorCode	N1	yes	Completion code
errorMessage	ANS..*	in case of error	Description of the error

Possible codes for errors (the errorCode field):

Value	Description
2	Binding is active
2	Binding doesn't exist

5	Access denied
5	User must change his password
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:bindCard>
      <bindingId>fd3afc57-c6d0-4e08-aaef-1b7cfeb093dc</bindingId>
    </mer:bindCard>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:bindCardResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="2" errorMessage="Binding is active"/>
    </ns1:bindCardResponse>
  </soap:Body>
</soap:Envelope>
```

11.3.1.4. Request to change binding expiry date

To change expiry date of the binding use `extendBinding` request.

Request parameters:

Name	Type	Mandatory	Description
bindingId	ANS36	yes	Identifier of the binding created with payment or used for payment. It can exist only if the merchant is allowed to use bindings
newExpiry	N6	yes	New date (year and month) of binding expiry in YYYYMM format
language	A2	no	Language in ISO 639-1 code. If it is not specified then the language which is specified in shop settings will be used by default (default language)

Response parameters:

Name	Type	Mandatory	Description
errorCode	N1	yes	Completion code
errorMessage	ANS..*	in case of error	Description of the error

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
1	One or more mandatory parameters are not specified or specified incorrectly
2	Binding not found
5	Access denied
5	User must change his password
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:extendBinding>
      <request language=" "
bindingId="1eabfb8e-b90e-4dc8-bef6-14bd392b1cec"
      newExpiry="201807"/>
    </mer:extendBinding>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:extendBindingResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0" errorMessage="Success"/>
    </ns1:extendBindingResponse>
  </soap:Body>
</soap:Envelope>
```

11.3.1.5. Merchant bindings list request

Use `getBindings` request to receive a list of merchant bindings.

Request parameters::

Name	Type	Mandatory	Description
clientId	AN..255	yes	Client number (identifier) in the merchant system, transferred during the order registration. Presents only if a merchant is allowed to create bindings.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N1	yes	Completion code.
errorMessage	ANS..*	in case of error	Description of the error.
<i>binding element (consists of bindingId, maskedPan, expiryDate):</i>			
bindingId	AN..255	no	Identifier of the binding created with payment or used for payment. It can exist only if the merchant is allowed to use bindings.
maskedPan	N..19	no	Masked number of the card that was used for payment. Specified only for paid orders.
expiryDate	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.

Possible codes for errors (the `errorCode` field):

Value	Description
1	[clientId] is empty
2	Data not found
5	Access denied
5	User must change his password
7	System error

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:getBindings>
      <request clientId="client"/>
    </mer:getBindings>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:


```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getBindingsResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0" errorMessage="">
        <bindings>
          <binding bindingId="fd3afc57-c6d0-4e08-aaef-1b7cfeb093dc"
maskedPan="400000**0002"
          expiryDate="201512"/>
        </bindings>
      </return>
    </ns1:getBindingsResponse>
  </soap:Body>
</soap:Envelope>

```

11.3.1.6. Request for list of bindings of a bank card

Merchant with appropriate permissions can request information on all bindings of a certain bank card. For that card number or known binding id must be sent in the request.

In order to receive list of bindings of a certain bank card use `getBindingsByCardOrId.do` method.

Response will contain all bindings available for the merchant in accordance with merchant settings.

Request parameters:

Name	Type	Mandatory	Description
pan	N..19	no	Card number. Mandatory if <code>bindingid</code> is not specified. Search by <code>pan</code> is available only for merchant with appropriate permission.
bindingId	AN..255	no	Binding identifier. Mandatory if <code>pan</code> is not specified. If <code>pan</code> is specified, the value of <code>bindingId</code> is ignored.
showExpired	boolean	no	This parameter is used to specify necessity of expired binding displaying. Possible values: <code>true</code> , <code>false</code> . Default value is <code>false</code> .
language	A2	no	Language according to ISO 639-1. If not specified, the system uses the default language from the user's settings. Error messages returned will be written in this very language.

Response request:

Name	Type	Mandatory	Description
errorCode	N1	yes	Error code.
errorMessage	ANS..*	yes	Description of error.
<i>bindings</i> (contains <i>binding</i> tags):			
<i>binding</i> (contains information on bindings – <i>bindingId</i> , <i>maskedPan</i> , <i>expiryDate</i> and <i>clientId</i>):			
bindingId	AN..255	no	Binding identifier.

maskedPan	N..19	no	Masked card number.
expiryDate	N6	no	Expiration date in YYYYMM format .
clientId	AN..255	no	Client dentifier in merchant system.

Error codes (values of the **errorCode** field):

Value	Description
0	No system error.
1	Both [pan] and [bindingId] are empty.
2	Data not found.
5	Access denied.
5	The user must change his password.
7	System error.

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:getBindingsByCardOrId>
      <request pan="4111111111111111" bindingId=" " showExpired="true"
language="ru"/>
    </mer:getBindingsByCardOrId>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getBindingsByCardOrIdResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return errorCode="0" errorMessage="Success">
        <bindings>
          <binding bindingId="9f43e86d-9744-42a5-8646-c4bb7cf8799a"
maskedPan="411111**1111" expiryDate="201912" clientId="12345"/>
          <binding bindingId="51c0750b-1a23-424b-8989-5e8f669124b4"
maskedPan="411111**1111" expiryDate="201512" clientId="123456"/>
          <binding bindingId="6a8c0738-cc88-4200-acf6-afc264d66cb0"
maskedPan="411111**1111" expiryDate="201912" clientId="666"/>
          <binding bindingId="97a70989-c1fb-49f7-8a42-27c19dc160dw"
maskedPan="411111**1111" expiryDate="201512" clientId="666"/>
        </bindings>
      </return>
    </ns1:getBindingsByCardOrIdResponse>
  </soap:Body>
</soap:Envelope>

```

11.3.2. REST interface

11.3.2.1. Payment by binding request

`paymentOrderBinding.do` request is used for performing the payment by bindings (see "Address data for connections (bindings functionality)" section).

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant login obtained during connection
password	AN..30	yes	Merchant password obtained during connection
mdOrder	ANS36	yes	Order number in payment system. Is unique within payment system.
bindingId	AN..255	yes	The identifier of a link created during order payment or used for payment. Presents only if a shop is allowed to create links.
cvc	N..3	no	CVC code. This parameter is mandatory, if the merchant does not have a permission "Can pay without CVC".
language	A2	no	Language in ISO 639-1 code. If it is not specified then the language which is specified in shop settings will be used by default (default language)

Response parameters:

Name	Type	Mandatory	Description
redirect	ANS..*	in case of SSL payment	URL to which the user is redirected after the payment

info	ANS..*	yes	<p>The result of the payment attempt. Possible values are represented below:</p> <ul style="list-style-type: none"> • Your order is proceeded, redirecting... • Operation declined. Please check the data and available balance of the card. Redirecting... • Sorry, payment cannot be complete. Redirecting... • Payment declined. Please, contact with merchant. Redirecting... • Payment declined. Please, contact with merchant. Redirecting... • Payment declined. Please, contact with your bank. Redirecting... • Payment declined. Please, contact with your bank. Redirecting... • Can't connect with your bank. Please, contact with your bank. Redirecting... • Processing timeout. Please, try again later. Redirecting...
success	N1	yes	Code of the error
error	AN..*	in case of error	Description of the ErrorCode error
acsUrl	ANS..*	in case of 3DS payment	URL for redirection from ACS
paReq	ANS..*	in case of 3DS payment	Payment Authentication Request
termUrl	ANS..*	in case of 3DS payment	Payment Authentication Request

Possible codes for errors (the `success` field):

Value	Description
0	Success
1	It is necessary to specify CVC2/CVV2, since the merchant does not have a permission to provide payments without CVC.
1	Incorrect CVC format
1	Invalid language
2	No binding found
2	No order found
5	User must change his password
5	Access denied
7	System error

POST request example:

```
mdOrder=65401edc-3fa1-4112-87fd-a569ca69fb6a&bindingId=41954212-70a7-4eae-8430-90c1a87beda7
```

Response example:

```
{"info":"Your order is proceeded, redirecting...","redirect":"finish.html?login=username&password=testPwd&orderId=65401edc-3fa1-4112-87fd-a569ca69fb6a","success":0}
```

11.3.2.2. Unbind card request

Use `unBindCard.do` request to deactivate binding (see "Address data for connections (bindings functionality)" section).

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration
password	AN..30	yes	Merchant's password received during registration
bindingId	AN..255	yes	Identifier of the binding created with payment or used for payment. It can exist only if the merchant is allowed to use bindings

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	yes	Completion code
errorMessage	AN..512	in case of error	Description of the error

Possible codes for errors (the `errorCode` field):

Value	Description
2	Binding doesn't exist
2	Binging isn't active
5	User must change his password
5	Access denied
7	System error

GET Request example:

```
https://test.paymentgate.ru/testpayment/rest/unBindCard.do?userName=bindin  
g_api&password=testPwd&bindingId=fd3afc57-c6d0-4e08-aaef-1b7cfeb093dc
```

POST Request example:

```
bindingId=fd3afc57-c6d0-4e08-aaef-1b7cfeb093dc
```

Response example:

```
{"errorCode": "2", "errorMessage": "Binging isn't active"}
```

11.3.2.3. Bind card request

Use `bindCard.do` request to activate binding (see "Address data for connections (bindings functionality)" section).

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
bindingId	AN..255	yes	Identifier of the binding created with payment or used for payment. It can exist only if the merchant is allowed to use bindings

Response parameters:

Name	Type	Mandatory	Description
errorCode	N3	yes	Completion code
errorMessage	AN..512	in case of error	Description of the error

Possible codes for errors (the `errorCode` field):

Value	Description
2	Binging is active
2	Binding doesn't exist
5	User must change his password
5	Access denied
7	System error

GET Request example:

```
https://test.paymentgate.ru/testpayment/rest/bindCard.do?userName=binding_
api&password=testPwd&bindingId=fd3afc57-c6d0-4e08-aaef-1b7cfefb093dc
```

POST Request example:

```
bindingId=fd3afc57-c6d0-4e08-aaef-1b7cfefb093dc
```

Response example:

```
{"errorCode": "2", "errorMessage": "Binding is active"}
```

11.3.2.4. Request to change binding expiry date

To change expiry date of the binding use `extendBinding.do` request (see "Address data for connections (bindings functionality)" section).

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
bindingId	ANS36	yes	Identifier of the binding created with payment or used for payment. It can exist only if the merchant is allowed to use bindings
newExpiry	N6	yes	New date (year and month) of binding expiry in YYYYMM format
language	A2	no	Language in ISO 639-1 code. If it is not specified then the language which is specified in merchant settings will be used by default (default language).

Response parameters:

Name	Type	Mandatory	Description
errorCode	N1	yes	Completion code
errorMessage	ANS..*	in case of error	Description of the error

Possible codes for errors (the `errorCode` field):

Value	Description
0	No system error
1	One or more mandatory parameters are not specified or specified incorrectly
2	Binding not found
5	Access denied
5	User must change his password
7	System error

GET request example:

```
https://test.paymentgate.ru/testpayment/rest/extendBinding.do?  
userName=login&password=password&bindingId=1eabfb8e-b90e-4dc8-bef6-14bd392  
blcec&  
newExpiry=201612&language=ru
```

POST request example:

```
bindingId=1eabfb8e-b90e-4dc8-bef6-14bd392b1cec&
newExpiry=201612&language=ru
```

Response example:

```
{ "errorCode": "0", "errorMessage": "Success" }
```

11.3.2.5. Merchant bindings list request

Use `getBindings.do` request to receive a list of merchant bindings (see "Address data for connections (bindings functionality)" section).

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
clientId	AN..255	yes	Client number (identifier) in the merchant system, transferred during the order registration. Presents only if a merchant is allowed to create bindings.

Response parameters:

Name	Type	Mandatory	Description
errorCode	N1	yes	Completion code
errorMessage	AN..512	in case of error	Description of the error
binding element (consists of bindingId, maskedPan, expiryDate):			
bindingId	AN..255	no	Identifier of the binding created with payment or used for payment. It can exist only if the merchant is allowed to use bindings
maskedPan	N..19	no	Masked number of the card that was used for payment. Specified only for paid orders.
expiryDate	N6	no	Card expiration date in the YYYYMM format. Specified only for paid orders.

Possible codes for errors (the `errorCode` field):

Value	Description
1	[clientId] is empty
2	Data not found
5	Access denied
5	User must change his password
7	System error

GET Request example:

```
https://test.paymentgate.ru/testpayment/rest/getBindings.do?userName=binding_api&password=testPwd&clientId=client
```

POST Request example:

```
clientId=client
```

Response example:

```
{ "bindings": [ { "bindingId": "fd3afc57-c6d0-4e08-aaef-1b7cfeb093dc", "maskedPan": "400000**0002", "expiryDate": "201512" } ],  
  "errorCode": "0", "errorMessage": "Success" }
```

11.3.2.6. Request for list of bindings of a bank card

Merchant with appropriate permissions can request information on all bindings of a certain bank card. For that card number or known binding id must be sent in the request.

In order to receive list of bindings of a certain bank card use `getBindingsByCardOrId.do` method.

Response will contain all bindings available for the merchant in accordance with merchant settings.

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	yes	Merchant's login received during registration.
password	AN..30	yes	Merchant's password received during registration.
pan	N..19	no	Card number. Mandatory if <code>bindingid</code> is not specified. Search by <code>pan</code> is available only for merchant with appropriate permission.
bindingId	AN..255	no	Binding identifier. Mandatory if <code>pan</code> is not specified. If <code>pan</code> is specified, the value of <code>bindingId</code> is ignored.
showExpired	boolean	no	This parameter is used to specify necessity of expired binding displaying. Possible values: <code>true</code> , <code>false</code> . Default value is <code>false</code> .

Response parameters:

Name	Type	Mandatory	Description
errorCode	N1	yes	Error code.
errorMessage	ANS..*	yes	Description of error.
<i>bindings</i> (contains blocks with parameters <i>bindingId</i> , <i>maskedPan</i> , <i>expiryDate</i> and <i>clientId</i>):			
bindingId	AN..255	no	Binding identifier.
maskedPan	N..19	no	Masked card number.
expiryDate	N6	no	Expiration date in YYYYMM format.
clientId	AN..255	no	Client identifier in merchant system.

Error codes (values of the **errorCode** field):

Value	Description
0	No system error.
1	Both [pan] and [bindingId] are empty.
2	Data not found.
5	Access denied.
5	The user must change his password.
7	System error.

Request example:

```
https://web.rbsuat.com/ab/rest/getBindingsByCardOrId.do?userName=login&password=password&pan=4111111111111111
```

Response example:

```
{ "errorCode": "0", "errorMessage": "", "bindings": [ { "bindingId": "0b8edeb2-8380-4092-bf7e-1e1a78f2b15e", "maskedPan": "411111**1111", "expiryDate": "201912", "clientId": "12" }, { "bindingId": "6a8c0738-cc88-4200-acf6-afc264d66cb0", "maskedPan": "411111**1111", "expiryDate": "201912", "clientId": "666" }, { "bindingId": "97a70989-c1fb-49f7-8a42-27c19dc160dw", "maskedPan": "411111**1111", "expiryDate": "201512", "clientId": "666" } ] }
```

11.4. Address data for connections (bindings functionality)

Employees of a merchant can access the console or make API requests using logins and passwords of a user associated with the merchant.

Description of the test service (WSDL) can be found at the address <https://test.paymentgate.ru/testpayment/webservices/merchant-ws?wsdl>.

URLs for access to REST methods:

Method name	URL
Payment by binding request	https://test.paymentgate.ru/testpayment/rest/paymentOrderBinding.do
Unbind card request	https://test.paymentgate.ru/testpayment/rest/unBindCard.do
Bind card request	https://test.paymentgate.ru/testpayment/rest/bindCard.do
Request to change binding expiry date	https://test.paymentgate.ru/testpayment/rest/extendBinding.do
Merchant bindings list request	https://test.paymentgate.ru/testpayment/rest/getBindings.do
Request for list of bindings of a bank card	https://test.paymentgate.ru/testpayment/rest/getBindingsByCardOrld.do

12. Appendix 3. External fee for payment

The possibility of this functionality use by a merchant must be agreed with the Bank.

12.1. Addition the to payment page description

1. Enable checking for necessity to charge payment fee by the following row in the payment script settings (in the page header):

```
getFeeEnabled: true
```

2. The payment script execute a request to the payment gate in order to define if a fee for a payment should be charged. In case of a positive response the fee amount is displayed on the payment page.

For this purpose the following block must be included into the payment page body:

```
<div id="feeBlock" class="row" style="display: none;">
  <div class="price">
    <span class="size24">
      <div id="feeAmount" style="float: left; margin-right: 8px;">0.00</div>
      
    </span>
  </div>
  <div class="name"><span>Комиссия за платеж</span></div>
</div>
```

12.2. Testing

1. You can register your order on the following page: <https://nginx01.rbs.bpc.in/alfapayment/merchants/test/test.html>:

Регистрация платежа

Параметры магазина	Параметры заказа
Адрес системы (используется только для запроса)	Валюта 810
Имя пользователя магазина	Номер заказа в системе v201411218238695 магазина
Пароль магазина 111111	Сумма заказа (в копейках) 18900
	Язык пользователя en
	Адрес возврата ../merchants/test/finish.html
	Описание заказа
	ID клиента
Зарегистрировать заказ (списание)	
Зарегистрировать заказ (предавторизация)	
Результаты регистрации	
Параметр	Значение

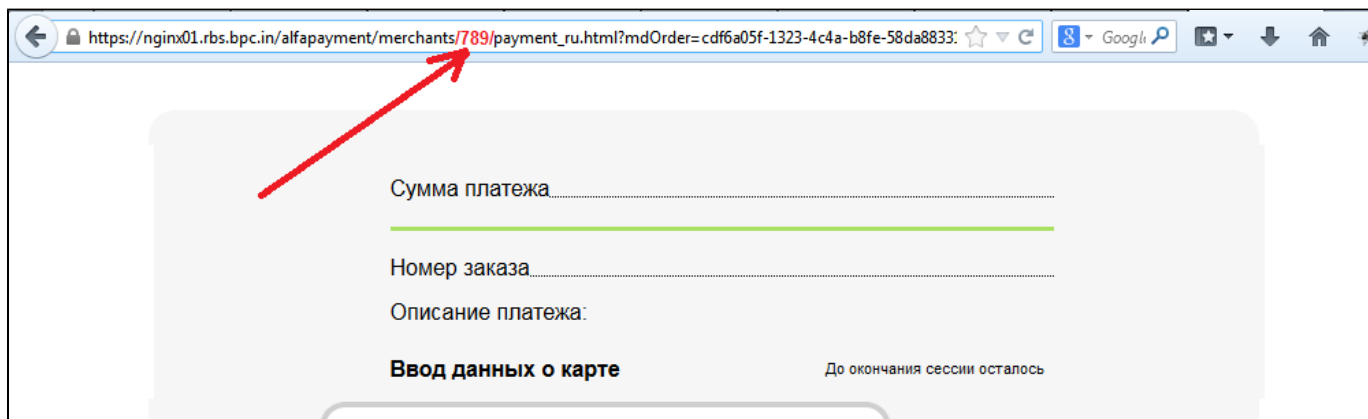
It is necessary to specify: user's Login and Password (the merchant of this user must have permission "Allow to charge a commission from client"), order number in the merchant system, order amount and back URL.

Note: Back URL should be actual, for instance <http://bpc.ru>

2. Enter all necessary data and press button "Зарегистрировать заказ (списание)" or "Зарегистрировать заказ (предавторизация)", depending on merchant scheme of work - one- or two-phase.

3. A redirect to the payment page is performed - [[https://nginx01.rbs.bpc.in/alfapayment/merchants/\[merchant_name\]/payment_ru.html?mdOrder=\[order_id\]](https://nginx01.rbs.bpc.in/alfapayment/merchants/[merchant_name]/payment_ru.html?mdOrder=[order_id])].

On the picture below as an example [merchant_name] = 789:



4. Replace [merchant_name] by rbs in the URL and press Enter. This will open a new payment page supporting work with payment fees:

https://nginx01.rbs.bpc.in/alfapayment/merchants/rbs/payment_ru.html?mdOrder=444afbb7-02e1-4500-99cd-45def7ef

А Альфа-Банк

Сумма платежа..... 1.00 Р

Комиссия за платеж..... 0.20 Р

Номер заказа..... 2ss14111174133796

Описание платежа:
null

Ввод данных о карте До окончания сессии осталось **19:29**

Введите номер карты

5555 5555 5555 5599

Срок действия карты
Январь 2014

Владелец карты

CVV2/CVC2

[Показать код](#)
[Что это?](#)

☐ Я ознакомлен и принимаю условия [договора-оферты](#)

Оплатить

5. The page contains the fee amount in the payment currency and a checkbox "Я ознакомлен и принимаю условия договора-оферты". To see conditions press the corresponding link. You will be redirected to the URL, specified in the merchant settings.

6. To complete payment enter card details, check "Я ознакомлен и принимаю условия договора-оферты" field and press "Оплатить".

The fee amount will be passed in the additional parameter `payment_fee` of the payment request. It will be displayed in the administrative console:

- On the Orders page in the "Additional parameters" column;
- On the order details page in the "Additional parameters" section.

13. Appendix 4. Specification of additional fields for payments in air-commerce

Unable to render {include} The included page could not be found.

14. Appendix 5. Dynamically formed pages

Displaying of optional fields on payment pages, payment result pages and error pages depends on merchant settings, in other words on merchant permissions.

14.1. Dinamically formed payment page

14.1.1. External commission

Functionality activation

To activate the merchant work with external commissions, the administrator must configure the following settings through the administrative console:

- The merchant must have permission "Allow to charge a commission from client".
- It is necessary to specify a URL where a payer will be redirected after pressing a corresponding link to see merchant offer. The URL must be entered in the "Merchant Information" window --> "Common info" tab --> "Merchant offer address" field, that becomes available only after "Allow to charge a commission from client" permission enabling.

Displaying on the payment page

If the merchant works with external commissions, the corresponding user interface elements become activated on the payment page:

- Field "Commission amount" ("Комиссия за платёж") shows commission amount in the order currency.
- Checkbox of the agreement with terms of the commission charging and the link to the Contract. The payment becomes available only after this field is checked.

Payment page of the merchant that has a permission to work with external commissions:

The screenshot displays the Alfa-Bank payment interface. At the top, the Alfa-Bank logo is visible. Below it, the payment details are shown: "Сумма платежа" (Payment amount) is 1003.55 P, and "Комиссия за платёж" (Commission for payment) is 0.10 P. These two fields are circled in red. Below the commission field, the order number "Номер заказа" is 2015211183538845, and the payment description "Описание платежа" is null. A section titled "Ввод данных о карте" (Enter card data) includes a card number field with "4111 1111 1111 1111", an expiration date field set to "Январь 2015", and a CVV2/CVC2 field. A red timer indicates "До окончания акции осталось 19:23". Below the card input fields, there is a checkbox labeled "Я ознакомлен и принимаю условия договора-оферты" (I am familiar with and accept the terms of the offer contract), which is also circled in red. A large green "Оплатить" (Pay) button is positioned below the checkbox. At the bottom, there are security logos: "Платеж безопасен" (Payment is safe), "Secured by Qiwi", "Verified by Visa", and "MasterCard SecureCode".

14.1.2. Bindings

Functionality activation

To activate the merchant work with bindings, the administrator must configure the following settings through the administrative console:

- The merchant must have permission "Merchant is allowed to use bindings".

To activate the binding functionality on the payment page:

- The order registration request must contain client ID.

Displaying on the payment page

If the merchant works with bindings and the order registration request contains client ID, the corresponding user interface elements become activated on the payment page (see the picture below):

- The field for PAN entering contains a dropdown with masked card numbers that are bound to the client ID.

After choosing of a card from dropdown, other fields of card details become non-editable except "CVV2/CVC2" field.

The client also can use another card not bound to the client ID. In this case it is necessary to enter all card details into appropriate fields.

- Checkbox "Save details of this card" ("Запомнить данные этой карты") allows the client to bind the card to the client ID.

In order to do this the client must enter details of new card and check the field "Save details of this card" ("Запомнить данные этой карты"). After the payment a new binding will be created.

During the next payment this card will be available in the dropdown in the PAN field.

Payment page of the merchant that has a permission to work with bindings:

Альфа-Банк

Сумма платежа 1007.89 ₽

Номер заказа 01sdrqq34tfq4f3

Описание платежа:
Заказ важной штуки.

Ввод данных о карте До окончания сессии осталось 12:03

Введите номер карты

Другая...
411111**1111
оплатитель карты

CVV2/CVC2

[Показать код](#)
[Что это?](#)

☐ Запомнить данные этой карты

Оплатить

Платеж безопасен Secured by Verified by MasterCard SecureCode

14.1.3. Payment through Alfa-click

Functionality activation

To activate the merchant work with Alfa-click, the administrator must configure the following settings through the administrative console:

- The merchant must have permission "Merchant is allowed to pay by other way".
- It is necessary to specify additional parameters for "Alfa-click" payment way in the "Merchant information" window on the "Alternative payment ways" tab.

Displaying on the payment page

If the merchant works with Alfa-click payment way, the corresponding user interface element becomes activated on the payment page (see the picture below):

- Button "You can pay through Alfa-click" ("Можно оплатить через Альфа-клик"). After pressing it the client will be redirected to the Alfa-click page (the client should not fill in any fields on the payment page).

Payment page of the merchant that has a permission to work with Alfa-click:

Альфа-Банк

Сумма платежа 1.00 Р

Номер заказа 2015212175110687

Описание платежа:
null

Ввод данных о карте До окончания сессии осталось 19:38

Введите номер карты

Срок действия карты
Январь : 2015 :

Владелец карты

CVV2/CVC2

[Показать код](#)
[Что это?](#)

Можно оплатить через Альфа-Клик

Оплатить

Платеж безопасен Secured by OpenGate VERIFIED by VISA MasterCard SecureCode

14.1.4. Error of CVV/CVC entering

The format of "CVV2/CVC2" field content is checked on the payment page.

If the merchant has permission "Can pay without CVC", the "CVV2/CVC2" field is considered to be filled in correctly in the following cases:

- The field is empty;
- There are three digits in the field.

If the merchant does not have permission "Can pay without CVC", the "CVV2/CVC2" field is considered to be filled in correctly only in the following case:

- There are three digits in the field.

In all other cases the field is considered to be filled in incorrectly, and corresponding error message appears on the payment page after the client confirms the payment:

The screenshot displays the Alfa-Bank payment page. At the top, the Alfa-Bank logo is visible. Below it, the payment details are shown: the sum of the payment is 10087.56 RUB, the order number is 2015212194227196, and the payment description is null. A section titled 'Ввод данных о карте' (Enter card details) includes a timer indicating 19:23 remaining until the session ends. A prominent red error message states 'CVC указан неверно' (CVC is incorrect). Below this, the card details form is shown with the card number 4111 1111 1111 1111, the expiration date of December 2015, and the cardholder's name 'OK KL'. The CVC field is highlighted with a red box and an arrow, indicating the source of the error. The 'Оплатить' (Pay) button is green and located at the bottom of the form. Security logos for Visa and MasterCard are also present.

14.2. Dinamically formed page of payment result

To be provided...

14.3. Dinamically formed error page

To be provided...

15. Appendix 6. Response codes - actionCode description (processing answer)

Код ответа — это цифровое обозначение результата, к которому привело обращение к системе со стороны пользователя. В системе определены следующие коды:

Action code — digital code of a result received after a client addressed to the system. The following codes exist in the system:

Action code	error_id	error_message	Описание / Description	Рекомендованные сообщения для Клиента / Recommended messages for a Client
-------------	----------	---------------	------------------------	---------------------------------------------------------------------------

-20010	-20010	BLOCKED_BY_LIMIT	Транзакция отклонена по причине того, что размер платежа превысил установленные лимиты Банком-эмитентом / Transaction is rejected since the amount exceeds limits specified by the Issuing bank	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-9000	-9000	Started	Состояние начала транзакции / State of transaction start	При возникновении данного actionCode сообщение Клиенту не отображается.
-3003	-3003	Неизвестно	Неизвестно / Unkown	Ошибка проведения платежа. Попробуйте позднее. / Payment error. Please try again later.
-2102	-2102	Блокировка по имени пассажира	Блокировка по имени пассажира / Rect by a passanger name	Ошибка проведения платежа. Обратитесь к представителю магазина для разьяснения причин. / Payment error. Please contact representative of the merchant for more details.
-2101	-2101	Блокировка по e-mail	Блокировка по e-mail / Reject by email	Ошибка проведения платежа. Обратитесь к представителю магазина для разьяснения причин. / Payment error. Please contact representative of the merchant for more details.
-2020	-2020	Получен неверный ECI	Получен неверный ECI. Код выставляется в том случае, если пришедший в PaRes ECI не соответствует допустимому значению для данной МПС. Правило работает только для Mastercard (01,02) и Visa (05,06), где значения в скобках - допустимые для МПС. / Invalid ECI. This code means that ECI received in PaRes is not valid for the IPS. The rule applies only to Mastercard (available values - 01,02) and Visa (available values - 05,06).	Ошибка проведения платежа. Попробуйте позднее. / Payment error. Please try again later.
-2019	-2019	Decline by iReq in PARES	PARES от эмитента содержит iReq, вследствие чего платеж был отклонен / PARES from the issuing bank contains iReq, which caused the payment rejection	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-2018	-2018	Declined. DS connection timeout	Directory server Visa или MasterCard либо недоступен, либо в ответ на запрос вовлеченности карты (VeReq) пришла ошибка связи. Это ошибка взаимодействия платежного шлюза и серверов МПС по причине технических неполадок на стороне последних. / There is no access to Directory server Visa or MasterCard or a connection error occurred after card involvement request (VeReq). This is an error of interaction between payment gate and IPS servers due to technical problems on the side of IPS servers.	Ошибка проведения платежа. Попробуйте позднее. / Payment error. Please try again later.
-2017	-2017	Отклонено. Статус PARES-a не "Y"	Отклонено. Статус PARES-a не "Y" / Rejected. PARES status is not "Y"	Ошибка проведения платежа. Обратитесь к представителю магазина для разьяснения причин. / Payment error. Please contact representative of the merchant for more details.
-2016	-2016	Declined. VeRes status is unknown	Банк-эмитент не смог определить, является ли карта 3dsecure. / Issuing bank could not determine if the card is 3dsecure.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-2015	-2015	Decline by iReq in VERes	VERes от DS содержит iReq, вследствие чего платеж был отклонен. / VERes from DS contains iReq, which caused the payment rejection.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-2013	-2013	Исчерпаны попытки оплаты	Исчерпаны попытки оплаты. / All payment attempts were used.	Ошибка проведения платежа. Попробуйте позднее. / Payment error. Please try again later.
-2012	-2012	Operation not supported	Данная операция не поддерживается. / This operation is not supported.	Ошибка проведения платежа. Попробуйте позднее. / Payment error. Please try again later.

-2011	-2011	Declined. PaRes status is unknown	Банк-эмитент не смог провести авторизацию 3dsecure-карты / Issuing bank was not able to perform 3dsecure card authorization.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-2010	-2010	Несовпадение XID	Несовпадение XID. / Mismatching of XID.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-2008	-2008	Неверный кошелек	Неверный кошелек. / Wrong purse.	Данный actionCode больше не используется.
-2007	2007	Decline. Payment time limit	Истек срок, отведенный на ввод данных карты с момента регистрации платежа (таймаут по умолчанию - 20 минут; продолжительность сессии может быть указана при регистрации заказа; если у мерчанта установлена привилегия "Нестандартная продолжительность сессии", то берётся период, указанный в настройках мерчанта). / The period allotted for card details entering has expired (by default timeout is 20 minutes; session duration may be specified while order registering; if the merchant has "Alternative session timeout" permission, then timeout duration is specified in merchant settings).	Ошибка проведения платежа. Попробуйте позднее. / Payment error. Please try again later.
-2006	2006	Decline. 3D Sec decline	Означает, что эмитент отклонил аутентификацию (3DS авторизация не пройдена) / Means that issuing bank rejected authentication (3DS authorization has not been performed).	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-2005	2005	Decline. 3D Sec sign error	Означает, что мы не смогли проверить подпись эмитента, то есть PAREs был читаемый, но подписан неверно. / Means that RBS could not check issuing bank sign, i.e. PAREs was readable, but the sign was wrong.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-2003	-2003	Блокировка по порту	Блокировка по порту. / Blocking by port.	Данный actionCode больше не используется.
-2002	2002	Decline. Payment over limit	Транзакция отклонена по причине того, что размер платежа превысил установленные лимиты. Примечание: имеется в виду либо лимиты Банка-эквайера на дневной оборот Магазина, либо лимиты Магазина на оборот по одной карте, либо лимит Магазина по одной операции. / Transaction was rejected because payment amount exceeded established limits. Note: it could be limit of day withdrawal established by Bank-acquirer, or limit of transaction by one card established by a merchant, or limit for one transaction established by a merchant.	Ошибка проведения платежа. Обратитесь к представителю магазина для разьяснения причин. / Payment error. Please contact representative of the merchant for more details.
-2001	2001	Decline. IP blacklisted	Транзакция отклонена по причине того, что IP-адрес Клиента внесен в черный список. / Transaction is rejected since Client's IP-address is in the black list.	Ошибка проведения платежа. Обратитесь к представителю магазина для разьяснения причин. / Payment error. Please contact representative of the merchant for more details.
-2000	2000	Decline. PAN blacklisted	Транзакция отклонена по причине того, что карта внесена в черный список. / Transaction is rejected since card number is in the black list.	Ошибка проведения платежа. Обратитесь к представителю магазина для разьяснения причин. / Payment error. Please contact representative of the merchant for more details.
-102	-102	Платеж отменен платежным агентом	Платеж отменен платежным агентом. / The payment was cancelled by the payment agent.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
-100	-100	no_payments_yet	Не было попыток оплаты. / There were not payment attempts.	При возникновении данного actionCode сообщение Клиенту не отображается.

-1	-1	sv_unavailable	Истекло время ожидания ответа от процессинговой системы. / The timer of waiting of processing response has expired.	Ошибка проведения платежа. Попробуйте позднее. / Payment error. Please try again later.
0	0	Approved.	Платеж успешно прошел. / Payment has been performed successfully.	Операция успешна. / Successful transaction.
1	1	Declined. Honor with id	Для успешного завершения транзакции требуется подтверждение личности. В случае интернет-транзакции (соот-но и в нашем) невозможно, поэтому считается как declined. / Proof of identity is necessary for successful completion of the transaction. In case of internet transaction (our case) it is impossible, so transaction is considered as declined.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
5	5	Decline. Unable to process	Отказ сети проводить транзакцию. / Refuse of network to process transaction.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
15	15	DECLINED_BY_BADINSTIT	МПС не смогла определить эмитента карты. / IPS cannot identify the issuing bank.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
53	53	DECLINED_BY_INVALID_ACCT	Карты не существует в системах процессинга. / The card does not exist in processing systems.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
100	100	Decline. Card declined	Ограничение по карте (Банк эмитент запретил интернет транзакции по карте). / Card limits (Issuing bank forbade internet transactions by the card).	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
101	101	Decline. Expired card	Истек срок действия карты. / Card is expired.	Проверьте правильность ввода карточных данных. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Check your card balance and verify entered card details. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
103	103	Decline. Call issuer	Нет связи с Банком-Эмитентом. Торговой точке необходимо связаться с банком-эмитентом. / There is no connection with the Issuing bank. Sales outlet need to contact Issuing bank.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
104	104	Decline. Card declined	Попытка выполнения операции по счету, на использование которого наложены ограничения. / This is an attempt to perform a transaction by an account that has restrictions for use.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
106	106	Превышено допустимое число попыток ввода ПИН. Вероятно карта временно заблокирована.	Превышено допустимое число попыток ввода ПИН. Вероятно карта временно заблокирована. / The maximum number of attempts to enter PIN is exceeded. It is possible that the card is blocked temporary.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
107	107	Decline. Call issuer	Следует обратиться к Банку-Эмитенту. / Please, contact Issuing bank.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.

109	109	Decline. Invalid merchant	Неверно указан идентификатор мерчанта/терминала или АСС заблокирован на уровне процессинга. / Merchant/terminal identifier is incorrect or ACC is blocked on the processing level.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
110	110	Decline. Invalid amount	Предпринята попытка выполнить транзакцию на сумму, превышающую лимит, заданный банком-эмитентом. / Attempt to perform a transaction of amount exceeding Issuing bank limit.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
111	111	Decline. No card record	Неверный номер карты. / Card number is incorrect.	Проверьте правильность ввода карточных данных. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Check your card balance and verify entered card details. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
116	116	Decline. Not enough money	Сумма транзакции превышает доступный остаток средств на выбранном счете. / Transaction amount exceeds the available balance of the selected account.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
117	117	INCORRECT PIN	Неверно указан пин код (не для интернет транзакций). / Incorrect PIN (not for internet transactions).	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
118	118	Сервис не разрешен	Сервис не разрешён (отказ от эмитента). / Service is not allowed (rejection came from the issuer).	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
119	119	Decline. SECURITY_VIOLATION из SV	Транзакция незаконна. / Illegal transaction.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
120	120	Decline. Not allowed	Отказ в проведении операции - транзакция не разрешена эмитентом. Код ответа платежной сети - 57. Причины отказа необходимо уточнять у эмитента. / Refusal to perform the operation - the transaction is not allowed by Issuing bank. Response code of the IPS - 57. Reasons for rejection should be specified an the issuing bank.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
121	121	Decline. Excds wdrwl limit	Предпринята попытка выполнить транзакцию на сумму, превышающую дневной лимит, заданный банком-эмитентом. / This is an attempt to perform transaction of amount exceeding the day limit established by the issuing bank.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
123	123	Decline. Excds wdrwl limit	Превышен лимит на число транзакций: клиент выполнил максимально разрешенное число транзакций в течение лимитного цикла и пытается провести еще одну. / The client has performed the maximum number of transactions during the limit cycle and tries to perform another one.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.

125	125	Decline. Card declined	Неверный номер карты. Подобная ошибка может означать ряд вещей: Попытка возврата на сумму, больше холда, попытка возврата нулевой суммы. Для AmEx - неверно указан срок действия карты. / Card number is incorrect. This error may have several meanings: Attempt to perform a refund of amount exceeding the hold amount; Attempt to refund zero amount; for AmEx - expiry date is specified incorrectly.	Проверьте правильность ввода карточных данных. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Check your card balance and verify entered card details. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
208	208	Decline. Card is lost	Карта утеряна. / Card is lost.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
209	209	Decline. Card limitations exceeded	Превышены ограничения по карте. / Card limitations exceeded.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
400	400	Реверсал обработан.	Реверсал обработан. / Reversal is processed.	Произведена отмена платежа. / Payment has been reversed.
902	902	Decline. Invalid trans	Ограничение по карте (Владелец карты пытается выполнить транзакцию, которая для него не разрешена). / Card limitations (Cardholder tries to perform a transaction that is forbidden for him).	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
903	903	Decline. Re-enter trans.	Предпринята попытка выполнить транзакцию на сумму, превышающую лимит, заданный банком-эмитентом. / Attempt to perform a transaction of amount exceeding Issuing bank limit.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
904	904	Decline. Format error	Ошибочный формат сообщения с точки зрения банка эмитента. / The message format is incorrect in terms of the issuing bank.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
907	907	Decline. Host not avail.	Нет связи с Банком, выпустившим Вашу карту. Для данного номера карты не разрешена авторизация в режиме stand-in (этот режим означает, что эмитент не может связаться с платежной сетью и поэтому транзакция возможна либо в оффлайне с последующей выгрузкой в бэк офис, либо она будет отклонена). / There is no connection with the Issuing bank. Authorization in stand-in mode is not allowed for this card number (this mode means that the Issuing bank is unable to connect to the IPS, and therefore the transaction can be either offline with further unloading to back office, or it can be declined).	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
909	909	Decline. Call issuer	Невозможно провести операцию (Ошибка функционирования системы, имеющая общий характер. Фиксируется платежной сетью или банком-эмитентом). / Operation is impossible (General error of the system functioning. May be detected by IPS or the Issuing bank).	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
910	910	Decline. Host not avail.	Банк-эмитент недоступен. / Issuing bank is not available.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.

913	913	Decline. Invalid trans	Неверный формат сообщения (Неправильный формат транзакции с точки зрения сети). / The message format is incorrect in terms of IPS.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
914	914	Decline. Orig trans not found	Не найдена транзакция (когда посылается завершение или reversal или refund). / Transaction is not found (when sending a completion, reversal or refund request).	При возникновении данного actionCode сообщение Клиенту не отображается.
999	999	Declined by fraud	Отсутствует начало авторизации транзакции. Отклонено по фроду или ошибка 3dsec. / The beginning of the transaction authorization is missed. Declined by fraud.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
1001	1001	Decline. Data input timeout	Пусто (Выставляется в момент регистрации транзакции, т.е. когда еще по транзакции не было введено данных карт). / Empty (is specified at the moment of transaction authorization, when card details are not entered yet).	При возникновении данного actionCode сообщение Клиенту не отображается.
1004	1004	Стадия авторизации 1	Стадия авторизации 1. / Authorization phase 1.	При возникновении данного actionCode сообщение Клиенту не отображается.
1005	1005	Стадия авторизации 2	Стадия авторизации 2. / Authorization phase 2.	При возникновении данного actionCode сообщение Клиенту не отображается.
2001	2001	Decline. Fraud	Фродовая транзакция (по мнению процессинга или платежной сети). / Fraud (in terms of IPS).	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
2002	2002	Неверная операция	Неверная операция. / Incorrect operation.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
2003	2003	Decline. SSL restricted	SSL (Не 3d-Secure/SecureCode) транзакции запрещены Магазины. / SSL (not 3D-Secure/SecureCode) transactions are forbidden for the Merchant.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
2004	2004	SSL without CVC forbidden	Оплата через SSL без ввода CVC2 запрещена. / Payment through SSL without CVC2 is forbidden.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
2005	2005	3DS rule failed	Платеж не соответствует условиям правила проверки по 3ds. / Payment does not meet terms of the rule of 3ds validation.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
2006	2006	Однофазные платежи запрещены	Однофазные платежи запрещены. / One-phase payments are forbidden.	Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. / Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.
2007	2007	Заказ уже оплачен	Заказ уже оплачен. / The order is paid.	Заказ уже оплачен. / The order has already been paid.
2008	2008	Транзакция ещё не завершена	Транзакция ещё не завершена. / The transaction is not completed.	При возникновении данного actionCode сообщение Клиенту не отображается.
2009	2009	Сумма возврата превышает сумму оплаты	Сумма возврата превышает сумму оплаты. / Refund amount exceeds deposited amount.	Сумма возврата превышает сумму оплаты. / The refund amount exceeds the amount deposited.

2014	2014	Ошибка выполнения 3DS-правила	Ошибка выполнения 3DS-правила / Error of 3DS rule execution.	<p>Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. /</p> <p>Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.</p>
2015	2015	Terminal select rule error	Ошибка выполнения правила выбора терминала (правило некорректно). / Terminal select rule error (rule is incorrect).	<p>Ошибка проведения платежа. Обратитесь к представителю магазина для выяснения дальнейших действий. /</p> <p>Payment error. Please contact representative of the merchant for more details.</p>
2016	2016	TDS_FORBIDDEN	Мерчант не имеет разрешения на 3-D Secure, необходимое для проведения платежа. / 3-D Secure payment is necessary, but the merchant does not have permission for 3-D Secure payment.	<p>Ошибка проведения платежа. Обратитесь к представителю магазина для выяснения дальнейших действий. /</p> <p>Payment error. Please contact representative of the merchant for more details.</p>
9001	9001	RBS internal error	Внутренний код отказа РБС. / RBS internal error.	<p>Ошибка проведения платежа. Попробуйте позднее. /</p> <p>Payment error. Please try again later.</p>
71015	1015	Decline. Input error	Введены неправильные параметры карты. / Entered card details are incorrect.	<p>Проверьте правильность ввода карточных данных. Если данная ошибка возникла повторно, обратитесь в Ваш банк для разьяснения причин. Телефон банка должен быть указан на обратной стороне карты. /</p> <p>Check your card balance and verify entered card details. If this error occurs repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.</p>
151017	1017	Decline. 3DSec comm error	3-D Secure - ошибка связи. / 3-D Secure - communication error.	<p>Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. /</p> <p>Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.</p>
151018	018	Decline. Processing timeout	Таймаут в процессинге. Не удалось отправить. / Processing timeout. Sending is failed.	<p>Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. /</p> <p>Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.</p>
151019	1019	Decline. Processing timeout	Таймаут в процессинге. Удалось отправить, но не получен ответ от банка. / Processing timeout. Sending is success, response from the bank was not received.	<p>Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. /</p> <p>Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.</p>
341014	1014	Decline. General Error	Код отказа РБС. / RBS general error.	<p>Ошибка проведения платежа. Попробуйте позднее. Если данная ошибка возникла повторно, обратитесь к представителю магазина для выяснения дальнейших действий. /</p> <p>Payment error. Try again later. If this error occurs repeatedly, please contact representative of the merchant for more details.</p>