Merchant Manual (EN)

About the document

This document describes principles of connecting and program interfaces of the payment gate.

Terms

- 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 issuing bank.

- ACS is acronym for Access Control Server which is an element of 3D Secure infrastructure that ensures validation of the payer by the issuing bank.

- 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.

- SecureCode is a technology developed by MasterCard that allows to perform additional authorization for a client on the side of the issuing bank. Practically the same as the 3-D Secure technology. Further in the document both technologies will be referred to as 3D Secure.

- Bank card is a plastic card linked to one or more bank accounts and is used to pay for goods and services including payments through the Internet.

- Acquiring bank is the bank that implements and runs the payment gate.

- Issuing bank is the bank that issued a client's bank card.

- 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.

- Two-phase payment is operation on goods/services payment carried out through the Interned with use of bank card, which requires additional confirmation. Two-phase mechanism allows to divide a process into checking of bank card paying capacity (authorization) and money withdrawal (financial confirmation). At the first step of two-phase payment bank card paying capacity is checked and money on the Client's account are blocked.

- Order – basic entity of the system, it describes an order in a certain internet store or an analogue thereof. Each order has an amount.

- Merchant – Trade and Service Company (TSC), selling goods or providing services through the Internet.

- Mobile payment page - functionality of a mobile and ordinary payment pages is the same. Mobile version differs in the layout, that takes into account the need for a compact and high-quality display of the page on the screens of mobile devices.

- IPS is acronym for International Payment System (e.g. Visa or MasterCard).

- One-phase payment -- operation on goods/services payment carried out through the Interned with use of bank card, which does not require additional confirmation.

- 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.

- Payment form is an HTML page that clients use to enter payment properties.

- Payment details – details used by a user to pay an order. Generally, details include card number, expiration date, CVC

- Payment gate of Bank-acquirer (PG) – automated system allowing a Merchant to receive and a Client to send payments through the Internet using bank cards.

Introduction

Internet-acquiring is up-to-date way of goods or services selling through the public Internet using bank cards.

Due to peculiarities of purchasing through the Internet there is a necessity to ensure the safe interaction of the parties involved in the operation of goods/services selling – client, merchant and bank-acquirer.

The merchant planning to sell goods or services through the Internet by bank cards should carry out certain procedures to ensure payment security:

- At the moment of key data transferring (personal data, bank cards details) the interaction with the client should be performed with use of cryptographic means (SSL/TLS).
- Information on the current payment (amount, currency, order description) and the result of the payment should be effectively protected from interference of intruders.
- At the moment of payment procedures of checking of card belonging to the client should be applied.

To meet these requirements the Bank-acquirer uses a specialized technology 3DSecure, developed by International Payment Systems Visa International and MasterCard (Verified by Visa and MasterCard SecureCode) to ensure the safety of Internet payments.

As a technology platform a payment gate is used. It allows a merchant to carry out necessary safety procedures without a significant restructuring of the Internet store site and business processes existing.

Connection

For connection to the system the merchant provides:

1. HTML-page (with graphics and CSS and other pluggable objects) that displays the payment form. Requirements to this page are described in " Payment page design" document.

As a result of connection the store receives:

1. Login – name of the merchant in the payment gate. It is used only for operations performed by API.
2. Password – password of the merchant in the payment gate. It is used only for operations performed by API.

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.

Interaction scheme of the process using 3D Secure

System interaction in case of a 3-D Secure card

Client   Merchant   Payment gate   Issuer Access Control Server (ACS)

(1) Place order

(2) Register order

(3) Unique order ID

(4) Redirect to payment form

(5) Get the payment form

(6) Payment form

(7) Send data of the filled in form

(8) Check for 3-D Secure enrollment

(9) Redirect to ACS

(10) Get the authorization form

(11) Authorization form

(12) Send data filled in the authorization form

(13) Redirect to the payment gate

(14) Complete the secure payment

(15) Perform payment

(16) Redirect to the merchant

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 involeved 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 it's 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.
19. The payment gate returns the payment status.
20. The merchant system sends the page with payment results to the client's browser.

Steps 18 and 19 are not mandatory, merchants can skip them in their implementation of the process.

Interaction scheme of the process not using 3-D Secure

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

Client — Merchant — Payment gate

(1) Place order

(2) Register order

(3) Unique order ID

(4) Redirect to payment form

(5) Get the payment form

(6) Payment form

(7) Send data of the filled in form

(8) Perform payment

(9) Redirect to the merchant

(10) Get page with the payment results

(11) Get payment results
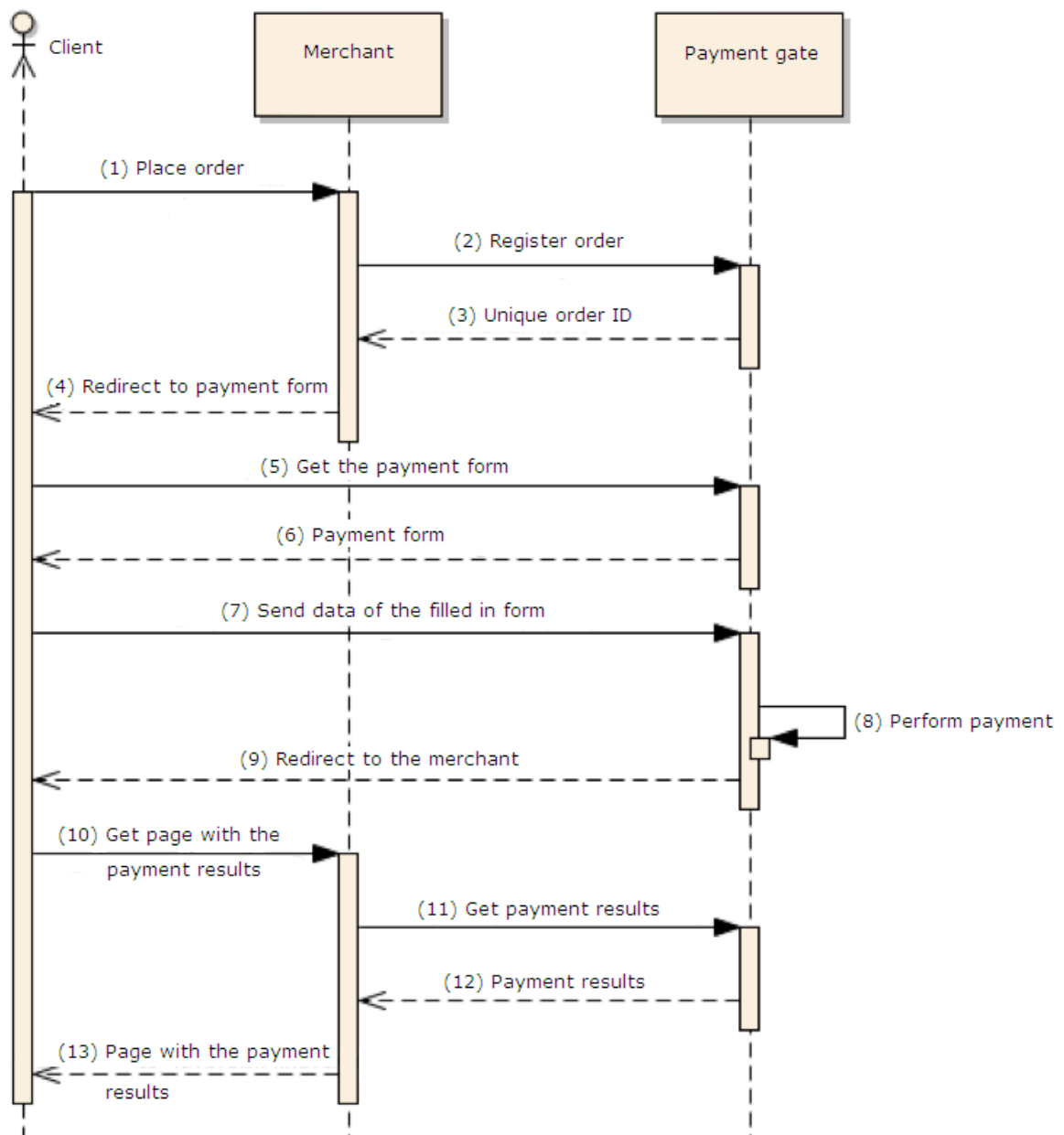
(12) Payment results

(13) Page with the payment results

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 reseiving 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.
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 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.

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.

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. When integration and the page are ready, ask the support group (rbssupport@bpc.ru) to verify your payment page. If the verification is successful, the support group 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).

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-phase payment requests

Order registration request

Order registration request, `registerOrder`, is described in WSDL of the service.

This request is used for registering orders.

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.
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	A..7	no	This parameter indicates a type of device used -- mobile device (`pageView=MOBILE`) or desktop (`pageView=DESKTOP`). Depending on this parameter value the response will contain a link to a mobile payment page or an ordinary payment page. The default value is `"DESKTOP"`.

sessionTimeoutSecs	N...9	no	Duration of the session 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 `"expirationDate"` parameter, the parameter `"sessionTimeoutSecs"` is ignored.
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 `registerOrder` 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	Order expiration date. Format: `yyyy-MM-dd'T'HH:mm:ss`. If this parameter is not specified, the `"sessionTimeoutSecs"` parameter is used to determine an order life time.
returnUrl	AN..512	yes	Web address that the client should be redirected after successful payment.
failUrl	AN..512	no	Web address that the client should be redirected if the payment failed.
params		no	An additional tag with the attributes for passing additional parameters of the merchant.* If notification of the client is switched on for the merchant, this tag should contain parameter `"email"` which value is client's email.
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.

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

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

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 `errorCode` 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 `errorCode` 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 `language` 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	Unknown language
5	Amount is invalid
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> http://example.ru?page=result </returnUrl>
           <failUrl>http://example.ru?page2=result</failUrl>
           <params name=" " value=" "/>
           <clientId>666</clientId>
       </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://server/applicaton_context/payment_ru.html?mdOrder=05fcbc62-7ee6-4f1a-b3d5-6ca41a982283 </formUrl>
       </return>
     </ns1:registerOrderResponse>
   </soap:Body>
 </soap:Envelope>
```

Order reversal request

To reverse an order use the `reverseOrder` request. This functionflity 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>
```

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 diposited 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 invalad
6	Incorrect order number
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>
```

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
orderDesctiption	AN..512	yes	Order description that was sent during registration
actionCodeDesctiption	AN..512	yes	Description of action code the language specified in the Language field of the request.
Element bindingInfo:			
clientId	AN..255	no	Number of the client (identifier) in the merchant's system. Transferred, when order is registred. Present only if creation of ligaments is allowed for merchant.
bindingId	AN..255	no	Identificator 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="643" 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>
```

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'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, the default value is used.
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.
cardAuthInfo (element has structure which includes the list of elements secureAuthInfo type and maskedPan, expiration, cardholderName and approvalCode 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.
secureAuthInfo (element includes eci element and elements of threeDSInfo type, which is a list of 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.
BindingInfo (element consits of clientId and bindingId):			
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
paymentAmountInfo element (consists of approvedAmount, depositedAmount, refundedAmount and paymentState 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

bankInfo element (consist of bankName, bankCountryCode and bankCountryName parameters):			
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	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="643" 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>
```

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 atribute. 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>
```

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>
```

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 `size` records). The response will return a page at number specified in this parameter. Page numbering starts at 0. If `page` 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 field empty to receive transactions of all available merchants.

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 `errorCode` field)".
errorMessage	AN..512	no	Description of the error. Present only in case of error (`errorCode` is not 0).
orderStatuses			Blocks containing data on orders in the report. See the table below - "Parameters of `orderStatuses` 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 `page` parameter, transferred in the request).
pageSize	N..3	yes	Maximum number of orders on one page of the report (it is equal to the `size` 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 `orderStatus` field".
actionCode	N..3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description in the language specified in the parameter `language` 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 `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 fild is empty
5	Value of `transactionStates` parameter is invalid
7	System error
10	Parameter `size` exceeds maximum value

Request example:

```xml
<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> </merchants>
            </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="f1a3365b-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>
```

Two-phase payment requests

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.
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	A..7	no	This parameter indicates a type of device used -- mobile device (`pageView=MOBILE`) or desktop (`pageView=DESKTOP`). Depending on this parameter value the response will contain a link to a mobile payment page or an ordinary payment page By default `pageView=MOBILE`.

sessionTimeoutSecs	N...9	no	Duration of the session 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 `expirationDate` parameter, the parameter `sessionTimeoutSecs` is ignored.
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 `registerOrder` 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	Order expiration date. Format: `yyyy-MM-dd'T'HH:mm:ss`. If this parameter is not specified, the `sessionTimeoutSecs` parameter is used to determine an order life time.
returnUrl	AN..512	yes	Web address that the client should be redirected after successful payment.
failUrl	AN..512	no	Web address that the client should be redirected if the payment failed.
params		no	An additional tag with the attributes for passing additional parameters of the merchant.*
			If notification of the client is switched on for the merchant, this tag should contain parameter `"email"` which value is client's email.
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.

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

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

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 `errorCode` 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 `errorCode` 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 `language` 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
4	Empty return URL
5	Two-phase payment is not allowed
5	Unknown language
5	Amount is invalid
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:registerOrderPreAuth>
       <order merchantOrderNumber="asuaakdfadsfasdfasdd5" description=" " amount="10000" currency=" "
language="ru" pageView="DESKTOP" sessionTimeoutSecs=" " bindingId=" "
expirationDate="2014-09-08T14:14:14">
         <returnUrl> http://ya.ru </returnUrl>
         <failUrl>http://example.ru?page2=result</failUrl>
         <params name=" " value=" "/>
         <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="Успешно">
         <formUrl> https://server/merchants/rbs/payment_ru.html?mdOrder=5e5dc6bd-dee3-4c96-849a-09f3f575f4b6
</formUrl>
       </return>
     </ns1:registerOrderPreAuthResponse>
   </soap:Body>
 </soap:Envelope>
```

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="Неверный номер заказа"/>
    </ns1:depositOrderResponse>
  </soap:Body>
</soap:Envelope>
```

Order reversal request

To reverse an order use the `reverseOrder` request. This functionflity 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>
```

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 diposited 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 invalad
6	Incorrect order number
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>
```

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
orderDesctiption	AN..512	yes	Order description that was sent during registration
actionCodeDesctiption	AN..512	yes	Description of action code the language specified in the Language field of the request.
Element bindingInfo:			
clientId	AN..255	no	Number of the client (identifier) in the merchant's system. Transferred, when order is registred. Present only if creation of ligaments is allowed for merchant.
bindingId	AN..255	no	Identificator 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="643" 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>
```

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'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, the default value is used.
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.
cardAuthInfo (element has structure which includes the list of elements secureAuthInfo type and maskedPan, expiration, cardholderName and approvalCode 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.
secureAuthInfo (element includes eci element and elements of threeDSInfo type, which is a list of 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.
BindingInfo (element consits of clientId and bindingId):			
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
paymentAmountInfo element (consists of approvedAmount, depositedAmount, refundedAmount and paymentState 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
bankInfo element (consist of bankName, bankCountryCode and bankCountryName parameters):			
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	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="9ffd04cb-5449-4183-b238-7d24b5b0fede" language="ru">
        <!--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="3456789012345678" orderStatus="2" actionCode="0" actionCodeDescription="Запрос успешно обработан"
amount="15000" currency="643" date="2013-09-03T15:47:18.315+04:00" orderDescription=" " ip="212.5.125.194" errorCode="0"
errorMessage="Успешно">
        <merchantOrderParams name="?" value="?"/>
        <attributes name="mdOrder" value="f7146c2c-bc20-49d5-9f8d-c1b0216e7294"/>
        <cardAuthInfo maskedPan="411111**1111" expiration="201512" cardholderName="Ivan" approvalCode="123456"/>
        <bindingInfo clientId="666" bindingId="df0b1801-a754-4576-b174-c2485d98bc9b"/>
        <authDateTime>2013-09-03T15:47:18.423+04:00</authDateTime>
        <terminalId>999999</terminalId>
        <authRefNum>111111111111</authRefNum>
        <paymentAmountInfo paymentState="DEPOSITED" approvedAmount="15000" depositedAmount="15000" refundedAmount="0"/>
        <bankInfo bankName="TEST CARD" bankCountryCode="RU" bankCountryName="Россия"/>
      </return>
    </ns1:getOrderStatusExtendedResponse>
  </soap:Body>
</soap:Envelope>
```

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 atribute. 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>
```

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>
```

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 `size` records). The response will return a page at number specified in this parameter. Page numbering starts at 0. If `page` 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 field empty to receive transactions of all available merchants.

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 `errorCode` field)".
errorMessage	AN..512	no	Description of the error. Present only in case of error (`errorCode` is not 0).
orderStatuses			Blocks containing data on orders in the report. See the table below - "Parameters of `orderStatuses` 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 `page` parameter, transferred in the request).
pageSize	N..3	yes	Maximum number of orders on one page of the report (it is equal to the `size` 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 `orderStatus` field".
actionCode	N..3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description in the language specified in the parameter `language` 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 `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 fild is empty
5	Value of `transactionStates` parameter is invalid
7	System error
10	Parameter `size` exceeds maximum value

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> </merchants>
        </merchants>
      </request>
    </mer:getLastOrdersForMerchants>
  </soapenv:Body>
</soapenv:Envelope>
```

Response example:

```xml
<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="f1a3365b-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>
```

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.

All text fields must have UTF-8 encoding.

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` or `getOrderStatusExtended`.

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 untill 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.

One-phase payment requests

Order registration request

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

This request is designed for registering orders in the payment gate.

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.
failUrl	AN..512	no	Web address that the client should be redirected if the payment failed.
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	A..7	no	This parameter indicates a type of device used – mobile device (`pageView=MOBILE`) or desktop (`pageView=DESKTOP`). Depending on this parameter value the response will contain a link to a mobile payment page or an ordinary payment page. The default value is `"DESKTOP"`.
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.
jsonParams	AN..1024	no	Fields of additional information for storage, the type is `{"param":"value","param2":"value2"}`. These fields may be transferred 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 block should contain parameter `"email"` which value is client's email.
sessionTimeoutSecs	N...9	no	Duration of the session 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 `"expirationDate"` parameter, the parameter `"sessionTimeoutSecs"` is ignored.
expirationDate	ANS	no	Order expiration date. Format: `yyyy-MM-dd'T'HH:mm:ss`. If this parameter is not specified, the `"sessionTimeoutSecs"` parameter is used to determine an order life time.

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 `registerOrder` 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.

* 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
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 redirectd to. Absent if order registration failed (error is described in ErrorCode).
errorCode	N3	no	Code of the error that occurres 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	errorMessage
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	Access denied
5	The user must change his password
5	Invalid [jsonParams]
7	System error

GET Request example:

https://server/application_context/rest/register.do?amount=100&currency=810&language=ru&orderNumber=8765432
1&password=password&returnUrl=finish.html&userName=userName&jsonParams={"orderNumber":1234567890}&pa
geView=MOBILE&expirationDate=2014-09-08T14:14:14

POST Request example:

amount=100&currency=810&language=ru&orderNumber=87654321&returnUrl=finish.html&jsonParams={"orderNum
ber":1234567890}&pageView=MOBILE&expirationDate=2014-09-08T14:14:14

Response example:

{"orderId":"70906e55-7114-41d6-8332-4609dc6590f4","formUrl":"https://server/application_context/merchants/test/m
obile_payment_ru.html?mdOrder=70906e55-7114-41d6-8332-4609dc6590f4"}

Order reversal request

To cancel payment of the order, use `reverse.do` request. This functionflity 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	Wrong order number.
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://server/application_context/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"}

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 diposited 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	Wrong order number.
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://server/application_context/rest/refund.do?amount=500&currency=643&language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208&password=password&userName=userName

POST Request example:

amount=500&currency=643&language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208

Response example:

{"errorCode":0}

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	Identificator 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	Unregistered OrderId

GET Request example:

https://server/application_context/rest/getOrderStatus.do?
orderId=b8d70aa7-bfb3-4f94-b7bb-aec7273e1fce&language=en&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","authCode":2,"clientId":"666","bindingId":"07a
90a5d-cc60-4d1b-a9e6-ffd15974a74f","ErrorCode":"0","ErrorMessage":"Success","OrderStatus":2,"OrderNumber":"2
3asdafaf","Pan":"411111**1111","Amount":789789}

Extended order state request

To inquire about state of a registered order, use the getOrderStatusExtended 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 gerOrderStatusExtended 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, the default value is used.
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.
cardAuthInfo (element has structure which includes the list of elements secureAuthInfo type and maskedPan, expiration, cardholderName and approvalCode attributes):			
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.
secureAuthInfo (element includes eci element and elements of threeDSInfo type, which is a list of 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.
BindingInfo (element consits of clientId and bindingId):			
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
paymentAmountInfo element (consists of approvedAmount, depositedAmount, refundedAmount and paymentState parameters):			

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
bankInfo element (consist of bankName, bankCountryCode and bankCountryName parameters):			
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	Unregistered OrderId
7	System error

GET Request example:

```
https://server/application_context/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":"643","amount":100,
"actionCode":0,"orderNumber":"1212x31334z15","orderDescription":"test",
"orderStatus":2,"ip":"217.12.97.50","actionCodeDescription":"The payment processed successfully",
"merchantOrderParams":[],"cardAuthInfo":{"expiration":"201512","pan":"411111**1111",
"approvalCode":"123456","cardholderName":"dsd
qdqd","secureAuthInfo":{"eci":5,"threeDSInfo":{"cavv":"AAAABCpEAUBNCAHEgBQAAAAAAAA=",
"xid":"MDAwMDAwMDEzNDIwMDcxMTk3Njc="}}}}

3DS enrolled verification request

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

Requiest 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.
isEnrolled	A1	no	3ds enrolled atribute. 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://server/application_context/rest/verifyEnrollment.do?
userName=userName&password=password&pan=4111111111111111]

POST request example:

```
pan=4111111111111111
```

Response example:

{"enrolled":"Y","emitterName":"TEST","emitterCountryCode":"RU","errorCode":"0","errorMessage":"Success"}

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 `size` records). The response will return a page at number specified in this parameter. Page numbering starts at 0. If `page` 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.

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 `errorCode` field)".
errorMessage	AN..512	no	Description of the error. Present only in case of error (`errorCode` is not 0).
orderStatuses			Block containing data on orders in the report. See the table below - "Parameters of `orderStatuses` 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 `page` parameter, transferred in the request).
pageSize	N..3	yes	Maximum number of orders on one page of the report (it is equal to the `size` 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 `orderStatus` field".
actionCode	N..3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description in the language specified in the parameter `language` 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 `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 fild is empty
5	Value of transactionStates parameter is invalid
5	Access denied
7	System error
10	Parameter `size` exceeds maximum value

GET request example:

```
https://server/application_context/rest/getLastOrdersForMerchants.do?userName=userName&password=password&language=en&page=0&size=
20141009160000&to=20141111000000&transactionStates=DEPOSITED,REVERSED&merchants=SevenEightNine
```

POST request example:

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

Response example:

{"errorCode":0,

"orderStatuses":[

{"errorCode":"0","orderNumber":"58drs0Pes459Hdsddd0567a0","orderStatus":2,"actionCode":0,"actionCodeDescription":"Request processed successfully","amount":250000,"currency":"643","date":1414485649233,"orderDescription":"Opisanie","ip":"212.5.125.194","merchantOrderParam CARD","bankCountryCode":"RU","bankCountryName":"Russian Federation"}},

{"errorCode":"0","orderNumber":"57drs0Pes459Hdsddd0567a0","orderStatus":2,"actionCode":0,"actionCodeDescription":"Request processed successfully","amount":250000,"currency":"643","date":1414485277286,"orderDescription":"Opisanie","ip":"212.5.125.194","merchantOrderParam CARD","bankCountryCode":"RU","bankCountryName":"Russian Federation"}}],

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

Two-phase payment requests

Preauthorized order registration request

Use `registerPreAuth.do` request for order registration in two-phase payment scheme (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.
failUrl	AN..512	no	Web address that the client should be redirected if the payment failed.
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	A..7	no	This parameter indicates a type of device used -- mobile device (`pageView=MOBILE`) or desktop (`pageView=DESKTOP`). Depending on this parameter value the response will contain a link to a mobile payment page or an ordinary payment page. By default `pageView=DESKTOP`.
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.
jsonParams	AN..1024	no	Fields of additional information for storage, the type is `{"param":"value","param2":"value2"}`. These fields may be transferred 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 block should contain parameter `"email"` which value is client's email.
sessionTimeoutSecs	N...9	no	Duration of the session 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 `expirationDate` parameter, the parameter `sessionTimeoutSecs` is ignored.
expirationDate	ANS	no	Order expiration date. Format: `yyyy-MM-dd'T'HH:mm:ss`. If this parameter is not specified, the `sessionTimeoutSecs` parameter is used to determine an order life time.

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 `registerOrder` 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.

* 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
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 redirectd to. Absent if order registration failed (error is described in `errorCode`).
errorCode	N3	no	Code of the error that occurres 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	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://server/application_context/rest/registerPreAuth.do?amount=100&currency=810&language=ru&orderNumber=87654321&password=password&returnUrl=finish.html&userName=userName&pageView=MOBILE&expirationDate=2014-09-08T14:14:14

POST request example:

amount=100&currency=810&language=ru&orderNumber=87654321&returnUrl=finish.html&pageView=MOBILE&expirationDate=2014-09-08T14:14:14

Response example:

{"orderId":"61351fbd-ac25-484f-b930-4d0ce4101ab7","formUrl":"https://server/application_context/mobile_payment_ru.html?mdOrder=61351fbd-ac25-484f-b930-4d0ce4101ab7"}

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	Wrong order number.
7	Payment must be in a correct state.
7	System error.

GET Request example:

```
https://server/application_context/rest/deposit.do?amount=100&currency=643&language=ru&orderId=e5b59d3d-746b-4828-9da4-06f126e01b68&password=password&userName=userName
```

POST Request example:

```
amount=100&currency=643&language=ru&orderId=e5b59d3d-746b-4828-9da4-06f126e01b68
```

Response example:

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

Order reversal request

To cancel payment of the order, use `reverse.do` request. This functionflity 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	Wrong order number.
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://server/application_context/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"}

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 diposited 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.

Value	Description
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	Wrong order number.
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://server/application_context/rest/refund.do?amount=500&currency=643&language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208&password=password&userName=userName

POST Request example:

amount=500&currency=643&language=ru&orderId=5e97e3fd-1d20-4b4b-a542-f5995f5e8208

Response example:

{"errorCode":0}

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	Identificator 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	Unregistered OrderId

GET Request example:

> https://server/application_context/rest/getOrderStatus.do?
> orderId=b8d70aa7-bfb3-4f94-b7bb-aec7273e1fce&language=en&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","authCode":2,"clientId":"666","bindingId":"07a
> 90a5d-cc60-4d1b-a9e6-ffd15974a74f","ErrorCode":"0","ErrorMessage":"Success","OrderStatus":2,"OrderNumber":"2
> 3asdafaf","Pan":"411111**1111","Amount":789789}

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 gerOrderStatusExtended 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, the default value is used.
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.
cardAuthInfo (element has structure which includes the list of elements secureAuthInfo type and maskedPan, expiration, cardholderName and approvalCode attributes):			
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.
secureAuthInfo (element includes eci element and elements of threeDSInfo type, which is a list of 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.
BindingInfo (element consits of clientId and bindingId):			
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
paymentAmountInfo element (consists of approvedAmount, depositedAmount, refundedAmount and paymentState 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
bankInfo element (consist of bankName, bankCountryCode and bankCountryName parameters):			
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	Unregistered OrderId
7	System error

GET Request example:

```
https://server/application_context/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":"643","amount":100,
"actionCode":0,"orderNumber":"1212x31334z15","orderDescription":"test",
"orderStatus":2,"ip":"217.12.97.50","actionCodeDescription":"Payment processed successfully",
"merchantOrderParams":[],"cardAuthInfo":{"expiration":"201512","pan":"411111**1111",
"approvalCode":"123456","cardholderName":"dsd
qdqd","secureAuthInfo":{"eci":5,"threeDSInfo":{"cavv":"AAABCpEAUBNCAHEgBQAAAAAAAA=",
"xid":"MDAwMDAwMDEzNDIwMDcxMTk3Njc="}}}}
```

3DS enrolled verification request

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

Requiest 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.
isEnrolled	A1	no	3ds enrolled atribute. 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://server/application_context/rest/verifyEnrollment.do?
userName=userName&password=password&pan=4111111111111111]

POST request example:

pan=4111111111111111

Response example:

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

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 `size` records). The response will return a page at number specified in this parameter. Page numbering starts at 0. If `page` 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.

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 `errorCode` field)".
errorMessage	AN..512	no	Description of the error. Present only in case of error (`errorCode` is not 0).
orderStatuses			Block containing data on orders in the report. See the table below - "Parameters of `orderStatuses` 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 `page` parameter, transferred in the request).
pageSize	N..3	yes	Maximum number of orders on one page of the report (it is equal to the `size` 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 `orderStatus` field".
actionCode	N..3	yes	Processing system authorization code.
actionCodeDescription	AN..512	yes	Action code description in the language specified in the parameter `language` 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 `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 fild is empty
5	Value of transactionStates parameter is invalid
5	Access denied
7	System error
10	Parameter `size` exceeds maximum value

GET request example:

https://server/application_context/rest/getLastOrdersForMerchants.do?userName=userName&password=password&language=en&page=0&size=
20141009160000&to=20141111000000&transactionStates=DEPOSITED,REVERSED&merchants=SevenEightNine

POST request example:

language=en&page=0&size=100&from=20141009160000&to=20141111000000&transactionStates=DEPOSITED,REVERSED&merchants=Seve

Response example:

{"errorCode":0,

"orderStatuses":[

{"errorCode":"0","orderNumber":"58drs0Pes459Hdsddd0567a0","orderStatus":2,"actionCode":0,"actionCodeDescription":"Request processed successfully","amount":250000,"currency":"643","date":1414485649233,"orderDescription":"Opisanie","ip":"212.5.125.194","merchantOrderParam
CARD","bankCountryCode":"RU","bankCountryName":"Russian Federation"}},

{"errorCode":"0","orderNumber":"57drs0Pes459Hdsddd0567a0","orderStatus":2,"actionCode":0,"actionCodeDescription":"Request processed successfully","amount":250000,"currency":"643","date":1414485277286,"orderDescription":"Opisanie","ip":"212.5.125.194","merchantOrderParam
CARD","bankCountryCode":"RU","bankCountryName":"Russian Federation"}}],

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

Callback notifications

A merchant can receive notifications about operations with orders.

Notifications can be sent in the following cases:

One-phase payment:

- attempt to deposit amount (DEPOSITED);
- attempt to execute reverse operation (REVERSED);
- attempt to refund (REFUNDED).

Two-phase payment:

- attempt to hold amount (APPROVED);
- attempt to deposit amount (DEPOSITED);
- attempt to execute reverse operation (REVERSED);
- attempt to refund (REFUNDED) .

Repeating of notification sending:

If callback returns `http = 200`, the notification is considered to be successful. Repeated callback for the transaction will not be executed.

If callback returns response defferent from `http = 200`, the notification is considered to be unsuccessful. In this case repeated attempts to sent notification are executed with an interval of `(10*attempt number)` minutes. Repeated attempts stop after:

- receiving of `http = 200` response;
  or
- six unsuccessful attempts of notification sending.

URL format:

```
{merchant-url}?mdOrder={mdOrder}&orderNumber={orderNumber}&operation={operation}&status={status}
```

Transferred parameters:

Parameter name	Type	Description
mdOrder	ANS36	Order number unique in the payment system.
orderNumber	AN..32	Order number in the merchant system. Unique within the merchant system.
operation	N..9	Operation type: • approved - operation of amount hold; • deposited - operation of completion; • reversed - operation of reversal; • refunded - operation of refund.
status	N1	Indicator of operation success (1 - successful operation, 0 - operation failed)

URL example:

```
https://myshop.ru/callback/?mdOrder=1234567890-098776-234-522&orderNumber=0987&operation=deposited&status=0
```

Payment page design

File with payment pages must be a ZIP archive that contains pages in its root folder. An example of the archive with the payment pages you can get in the bank.

It is advised to use the 7-zip archiver.

Requirements to the code of the payment interface page

The 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">
```

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).

> Warning!
> XHTML declaration - <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"> is mandatory, otherwise the payment page may not work properly in some browsers.

Pages necessary for payment interface:

• payment_<locale>.html – payment page;
• errors_<locale>.html – errors page, where locale is the page language in 2-alpha code according to ISO 639-1, e.g. "ru" for Russian and "en" for English.

If you also intend to use mobile pages, the following pages are required:

- mobile_payment_<locale>.html – payment page;
- mobile_errors_<locale>.html – errors page.
  Where locale is 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 registering requests indicates which type of pages, ordinary or mobile, should be loaded (see paragraphs "Order registration request" and "Order preauthorization request").

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

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.

Page name

Name of the file of the ordinary page: payment_<ln>.html,

Name of the file of the mobile page: mobile_payment_<ln>.html,

Where <ln> is the 2-alpha code of the page locale (language code according to ISO 639-1 e.g. "ru" for Russian and "en" for English.)

Page header

Header of the page should attach the following scripts:

Standard version:

```
<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.js"></script>
<script>
$(document).payment({
});
</script>
```

Extended version:

```
<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.js"></script>
<script>
$(document).payment({
language: "ru",
messageAjaxError: "Сервис временно недоступен. Попробуйте позднее.",

messageTimeRemaining: "До окончания сессии осталось #MIN#:#SEC#",
});
</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.

Page body

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="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="<ln>" >
</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 - январь</option>

    <option value="02"> 2 - февраль</option>
    <option value="03"> 3 - март</option>
    <option value="04"> 4 - апрель</option>
    <option value="05"> 5 - май</option>
    <option value="06"> 6 - июнь</option>
    <option value="07"> 7 - июль</option>
    <option value="08"> 8 - август</option>
    <option value="09"> 9 - сентябрь</option>
    <option value="10">10 - октябрь</option>
    <option value="11">11 - ноябрь</option>
    <option value="12">12 - декабрь</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="3" type="password" autocomplete="off" />
```

a field for CVC/CVV;

```
<input value="Оплатить" 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;"><img src="../../img/ajax-loader.gif" height="19" width="220" alt="indicator"></div>
```

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

If you intend to use IFrame, add the following block to the page body:

```
<iframe name="iframe_name" id="iframe_id" src="formUrl" style="width: 100%; height: 700px; border: 0 none;" scrolling="no" frameborder="0"></iframe>
```

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

- order amount

- number (identifier) of the order in the merchant's system.

- order description (only displayed when filling out the field description)

Additional elements on the payment page

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.

To display other additional elements on the payment page, use the following blocks:

```
<tr valign="top" id="Parameter name">

<td valign="top">
```

where `Paremeter name` is one of the following values:

- amount - order amount in the minimun 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.

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

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.

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>
```

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" />
```

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

```
<input value="Оплатить" 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;"><img src="../../img/ajax-loader.gif" height="19" width="220" alt="indicator"></div>
```

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

Error page requirements

The page must contain a number of mandatory objects.

Page name

Name of the ordinary page file: errors_<ln>.html,

Name of the mobile page file: mobile_errors_<ln>.html,

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

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 = "<ln>";
</script>
```

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

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="<ln>" type="hidden">
</form>
```

, where <ln> 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>
```

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://server/application_context/webservices/merchant-ws?wsdl.

URLs for access to REST methods:

Method name	URL
Order registration	https://server/application_context/rest/register.do
Preauthorized order registration	https://server/application_context/rest/registerPreAuth.do
Request for order completion	https://server/application_context/rest/deposit.do
Reversal request	https://server/application_context/rest/reverse.do
Request for refund of an order	https://server/application_context/rest/refund.do
Order status request	https://server/application_context/rest/getOrderStatus.do
Order status request (extended)	https://server/application_context/rest/getOrderStatusExtended.do
3DS enrolled verification request	https://server/application_context/rest/verifyEnrollment.do
Payment by binding request	https://server/application_context/rest/paymentOrderBinding.do
Request for binding deactivation	https://server/application_context/rest/unBindCard.do
Request for binding activation	https://server/application_context/rest/bindCard.do
Request to change binding expiry date	https://server/application_context/rest/bindCard.do
Merchant bindings list request	https://server/application_context/rest/getBindings.do
Payment statistics for a specified period	https://server/application_context/rest/getLastOrdersForMerchants.do

Test cards

PAN	CVC	Experiation	Processing Response
4444444444446666	123	2015/12	Blocked by limit. / Блокировка по лимиту.
4111111111111111	123	2015/12	Request has been processed successfully. / Запрос успешно обработан.
4563960122001999	347	2015/12	Request has been processed successfully. / Запрос успешно обработан.
5555555555555557	123	2015/12	Request has been processed successfully. / Запрос успешно обработан.
5555555555555599	123	2015/12	Request has been processed successfully. / Запрос успешно обработан.
639002000000000003	123	2015/12	Request has been processed successfully. / Запрос успешно обработан.
4444444444444422	123	2015/12	Message format is incorrect. / Неверный формат сообщения.
4444444411111111	123	2015/12	Refusal of network to process transaction. / Отказ сети проводить транзакцию.
4444444499999999	123	2015/12	3DS connection error. / Ошибка связи 3DS.

Appendix 1. Binding functionality

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 autorization 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.

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 chooosing 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>Выберите карту:</span>
</td>
<td valign="top">
<select name="bindingId">
<option value="" selected="selected">другая</option>
</select>
</td>
</tr>
<tr class="rbs_hidden">
<td align="right">
<span>Введите CVC2/CVV2/CID код :</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="Оплатить" type="button" id="buttonBindingPayment">
</td>
</tr>
</tbody>
</table>
</form>
```

Requests with bindings

WebService interface

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: • 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>
```

Unbind card request

Use unBindCard request to deactovate 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-1b7cfeb093dc</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="0" errorMessage="Успешно"/>
    </ns1:unBindCardResponse>
  </soap:Body>
</soap:Envelope>
```

Bind card request

Use bindCard request to activate binding deactivated earlier.

Request parameters:

Name	Type	Mandatory	Descrption
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	Descrption
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="5" errorMessage="Пользователь должен сменить свой пароль"/>
     </ns1:bindCardResponse>
   </soap:Body>
</soap:Envelope>
```

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="f4e38f82-d62c-4179-8fe7-908613c445be" newExpiry="201508"/>
     </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>
```

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
Элемент binding (состоит из bindingId, maskedPan и 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

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="Успешно">
            <bindings>
               <binding bindingId="fd3afc57-c6d0-4e08-aaef-1b7cfeb093dc" maskedPan="4000 00** **** **02" expiryDate="201512"/>

            </bindings>
         </return>
      </ns1:getBindingsResponse>
   </soap:Body>
</soap:Envelope>
```

REST interface

Payment by binding request

PaymentOrderBinding 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	Shop login obtained during connection
password	AN..30	yes	Shop 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	The result of the payment attempt. Possible values are represented below: • 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
error	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
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=password&orderId=65401edc-3fa1-4112-87fd-a569ca69fb6a","success":0}\

Unbind card request

Use unBindCard request to deactovate 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://server/application_context/rest/unBindCard.do?userName= userName&password=password&bindingId=fd3afc57-c6d0-4e08-aaef-1b7cf
eb093dc
```

POST Request example:

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

Response example:

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

Bind card request

Use bindCard 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://server/application_context/rest/bindCard.do?userName= userName&password=password&bindingId=fd3afc57-c6d0-4e08-aaef-1b7cfeb093dc

POST Request example:

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

Response example:

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

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 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

GET request example:

```
https://server/application_context/rest/extendBinding.do?
userName=login&password=password&bindingId=f4e38f82-d62c-4179-8fe7-908613c445be&
newExpiry=201612&language=ru
```

POST request example:

```
bindingId=f4e38f82-d62c-4179-8fe7-908613c445be&
newExpiry=201612&language=ru
```

Response example:

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

Merchant bindings list request

Use getBindings 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
Элемент binding (состоит из bindingId, maskedPan и 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://server/application_context/rest/getBindings.do?userName=userName&password=password&clientId=client
```

POST Request example:

```
clientId=client
```

Response example:

```
{"bindings":[{"bindingId":"fd3afc57-c6d0-4e08-aaef-1b7cfeb093dc","maskedPan":"4000 00** ****
**02","expiryDate":"201512"}],"errorCode":"0","errorMessage":"Успешно"}
```

Appendix 2. 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	Сообщение на платёжной странице / Message on the payment page

-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	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-9000	-9000	Started	Состояние начала транзакции / State of transaction start	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-3003	-3003	Неизвестно	Неизвестно / Unkown	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-2102	-2102	Блокировка по имени пассажира	Блокировка по имени пассажира / Regect by a passanger name	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-2101	-2101	Блокировка по e-mail	Блокировка по e-mail / Reject by email	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-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)	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-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	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-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 MaterCard or a connection error occured after card involvement request (VeReq). This is an error of interacion between payment gate and IPS servers due to technical problems on the side of IPS servers.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-2017	-2017	Отклонено. Статус PARes-а не "Y"	Отклонено. Статус PARes-а не "Y"/ Rejected. PARes status is not "Y"	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-2013	-2013	Исчерпаны попытки оплаты	Исчерпаны попытки оплаты. / All payment attempts were used.	Операция отклонена. Проверьте введенные данные, достаточность средств на карте и повторите операцию. / Operation declined. Please check the data and available balance of the card.
-2012	-2012	Operation not supported	Данная операция не поддерживается. / This operation is not supported.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-2010	-2010	Несовпадение XID	Несовпадение XID. / Mismatching of XID.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-2008	-2008	Неверный кошелёк	Неверный кошелёк. / Wrong purse.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-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).	Истек срок ожидания ввода данных. / Payment declined. Please, contact with merchant.
-2006	2006	Decline. 3DSec decline	Означает, что эмитент отклонил аутентификацию (3DS авторизация не пройдена) / Means that issuing bank rejected authentication (3DS authorization has not been performed).	Операция невозможна. Аутентификация держателя карты завершена неуспешно. / Payment declined. Please, contact with your bank.

-2005	2005	Decline. 3DSec 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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
-2003	-2003	Блокировка по порту	Блокировка по порту. / Blocking by port.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-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.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-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.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-2000	2000	Decline. PAN blacklisted	Транзакция отклонена по причине того, что карта внесена в черный список. / Transaction is rejected since card number in in the black list.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
-102	-102	Платеж отменен платежным агентом	Платеж отменен платежным агентом. / The payment was cancelled by the payment agent.	-
-100	-100	no_payments_yet	Не было попыток оплаты. / There were not payment attempts.	-
-1	-1	sv_unavailable	Истекло время ожидания ответа от процессинговой системы. / The timer of waiting of processing response has expired.	Не получен ответ от банка. Повторите позже. / Processing timeout. Please, try again later.
0	0	Approved.	Платеж успешно прошел. / Payment has been performed successfully.	-
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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
5	5	Decline. Unable to process	Отказ сети проводить транзакцию. / Refuse of network to process transaction.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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 разъяснения причин. Телефон банка должен быть указан на обратной стороне карты. / Payment error. Try again later. If this error occures repeatedly, please contact your bank for more details. You can find bank telephone number on the back side of your bank card.
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).	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
101	101	Decline. Expired card	Истек срок действия карты. / Card is expired.	Операция отклонена. Проверьте введенные данные, достаточность средств на карте и повторите операцию. / Operation declined. Please check the data and available balance of the 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 oulet need to contact Issuing bank.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
107	107	Decline. Call issuer	Следует обратиться к Банку-Эмитенту. / Please, contact Issuing bank.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
109	109	Decline. Invalidnj 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.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.

110	110	Decline. Invalid amount	Неверно указана сумма транзакции. / Transaction amount is incorrect.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
111	111	Decline. No card record	Неверный номер карты. / Card number is incorrect.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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.	Операция отклонена. Проверьте введенные данные, достаточность средств на карте и повторите операцию. / Operation declined. Please check the data and available balance of the card.
117	117	INCORRECT PIN	Неверно указан пин код (не для интернет транзакций) / Incorrect PIN (not for internet transactions).	Операция отклонена. Проверьте введенные данные, достаточность средств на карте и повторите операцию. / Operation declined. Please check the data and available balance of the card.
119	119	Decline. SECURITY_VIOLATION из SV	Транзакция незаконна. / Illegal transaction.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
121	121	Decline. Excds wdrwl limt	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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
123	123	Decline. Excds wdrwl ltmt	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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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.	Операция отклонена. Проверьте введенные данные, достаточность средств на карте и повторите операцию. / Operation declined. Please check the data and available balance of the card.
208	208	Decline. Card is lost	Карта утеряна. / Card is lost.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
209	209	Decline. Card limitations exceeded	Превышены ограничения по карте. / Card limitations exceeded.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
400	400	Реверсал обработан.	Реверсал обработан. / Reversal is processed.	-
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).	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
904	904	Decline. Format error	Ошибочный формат сообщения с точки зрения банка эмитента. / The message format is incorrect in terms of the issuing bank.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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).	Нет связи с банком. Повторите позже. / Can't connect with your bank. Please, contact with your bank.

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).	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
910	910	Decline. Host not avail.	Банк-эмитент недоступен. / Issuing bank is not available.	Нет связи с банком. Повторите позже. / Can't connect with your bank. Please, contact with your bank.
913	913	Decline. Invalid trans	Неверный формат сообщения (Неправильный формат транзакции с точки зрения сети). / The message format is incorrect in terms of IPS.	Операция отклонена. Обратитесь в банк, выпустивший карту. / Payment declined. Please, contact with your bank.
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).	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
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.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
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).	Не получен ответ от банка. Повторите позже. / Processing timeout. Please, try again later.
1004	1004	Стадия авторизации 1	Стадия авторизации 1. / Authorization phase 1.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
1005	1005	Стадия авторизации 2	Стадия авторизации 2. / Authorization phase 2.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2001	2001	Decline. Fraud	Фродовая транзакция (по мнению процессинга или платежной сети). / Fraud (in terms of IPS).	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2002	2002	Неверная операция	Неверная операция. / Incorrect operation.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2003	2003	Decline. SSL restricted	SSL (Не 3d-Secure/SecureCode) транзакции запрещены Магазину. / SSL (not 3D-Secure/SecureCode) transactions are forbidden for the Merchant.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2004	2004	SSL without CVC forbidden	Оплата через SSL без ввода CVC2 запрещена. / Payment through SSL without CVC2 is forbidden.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2005	2005	3DS rule failed	Платеж не соотвествует условиям правила проверки по 3ds. / Payment does not meet terms of the rule of 3ds validation.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2006	2006	Однофазные платежи запрещены	Однофазные платежи запрещены. / One-phase payments are forbidden.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2007	2007	Заказ уже оплачен	Заказ уже оплачен. / The order is payed.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2008	2008	Транзакция ещё не завершена	Транзакция ещё не завершена. / The transaction is not completed.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2009	2009	Сумма возврата превышает сумму оплаты	Сумма возврата превышает сумму оплаты. / Refund amount exceeds deposited amount.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2014	2014	Ошибка выполнения 3DS-правила	Ошибка выполнения 3DS-правила / Error of 3DS rule execution.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
2015	2015	Terminal select rule error	Ошибка выполнения правила выбора терминала (правило некорректно). / Terminal select rule error (rule is incorrect).	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
9001	9001	RBS internal error	Внутренний код отказа РБС. / RBS internal error.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
71015	1015	Decline. Input error	Введены неправильные параметры карты. / Entered card details are incorrect.	Операция отклонена. Проверьте введенные данные, достаточность средств на карте и повторите операцию. / Operation declined. Please check the data and available balance of the card.
151017	1017	Decline. 3DSec comm error	3-D Secure - ошибка связи. / 3-D Secure - communication error.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.
151018	018	Decline. Processing timeout	Таймаут в процессинге. Не удалось отправить. / Processing timeout. Sending is failed.	Не получен ответ от банка. Повторите позже. / Processing timeout. Please, try again later.
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.	Не получен ответ от банка. Повторите позже. / Processing timeout. Please, try again later.
341014	1014	Decline. General Error	Код отказа РБС. / RBS general error.	Операция отклонена. Обратитесь в магазин. / Payment declined. Please, contact with merchant.