

Request for order registration with pre-authorization (registerOrderPreAuth)

The request used for registering an order with pre-authorization is registerPreAuth.

Use the following URL to connect to the Test Service (WSDL):

<https://3dsec.sberbank.ru/payment/webservices/merchant-ws?wsdl>.

In this document, the following data type conventions are used when describing request and response parameters:

- A<n> - a sequence of Latin letters of length <n>;
- A..<n> - a sequence of Latin letters with a length not exceeding <n>;
- N<n> - a sequence of digits of length <n>;
- N..<n> - a sequence of digits with a length not exceeding <n>;
- AN<n> - a sequence of Latin letters and numbers of fixed length <n>;
- AN..<n> - a sequence of Latin letters and numbers with a length not exceeding <n>;
- ANS<n> - a sequence of Latin letters, numbers and characters of fixed length <n>
- ANS..<n> - a sequence of Latin letters, numbers and characters with a length not exceeding <n>;
- UTC - date and time, in this case: the date must be passed without specifying the time zone, Moscow time, for the SOAP protocol, the standard encoding xs: dateTime is used.

Request parameters

The request parameters are given in table below.

Name	Type	Mandatory	Description
merchantOrderNumber	ANS..32	See description	Number (identifier) of the order in the store system. It is unique for every store within the Payment Gateway. If the order number is generated on the Payment Gateway side, this parameter is not mandatory.
description	ANS..512	No	Description of the order in any format. Only the first 24 characters of this field are transferred to Sberbank's processing for inclusion in the merchant's financial statements. To enable sending this field to the processing system, contact the technical support service.
amount	N..12	Yes	Payment amount in minimum currency units.
currency	N3	No	ISO 4217 code of the payment currency. If not specified, default value is used.
language	A2	No	Language in the ISO 639-1 encoding. If the language is not specified, the default language defined in the store settings is used.

Name	Type	Mandatory	Description
pageView	ANS..20	No	The value of this parameter defines what kind of pages of the payment interface will be loaded for the Customer. The available values are: • DESKTOP – pages designed to be displayed on desktop computers (pages with names like payment_<locale>.html and errors_<locale>.html will be searched for in the payment service archive); • MOBILE – pages designed to be displayed on mobile devices (pages with names like mobile_payment_<locale>.html and mobile_errors_<locale>.html will be searched for in the payment service archive); • If a store has created payment interface pages with arbitrary prefixes added to the names of page files, pass the value of the necessary prefix in the pageView parameter to load corresponding pages. For example, on passing the iphone value, a search will be carried out in the archive of payment interface pages for pages with the iphone_payment_<locale>.html and iphone_error_<locale>.html names. Where: • locale – the language of the page in ISO 639-1. For example, ru for Russian or en for English. If the parameter is missing or its value is in incorrect format, the default value is pageView=DESKTOP.
sessionTimeoutSecs	N..9	No	Order lifetime in seconds. If the parameter is not specified, the value specified in the Merchant settings or the default value (1200 seconds = 20 minutes) will be used. If the request contains the expirationDate parameter, then the value of sessionTimeoutSecs parameter is disregarded.
bindingId	AN..255	No	The identifier of the previously created binding. Can only be used if the merchant has permission to work with bindings. If this parameter is passed in the given request, it means that: 1. The given order can be paid only using a binding; 2. The payer will be redirected to the payment page on which only entering CVC is required.
expirationDate	ANS	No	The date and time of the order lifetime expiration. Format: yyyy-MM-ddTHH:mm:ss. If this parameter is not passed in the request, sessionTimeoutSecs parameter is used to determine the end of lifetime of the order.
returnUrl	ANS..512	Yes	The URL to which the user is to be redirected in case of a successful payment (and also in case of a failed payment where the failUrl parameter is not passed). The address must be specified in full including the protocol used (for example, https://test.ru instead of test.ru). Otherwise, the user will be redirected to the address of the following type: http://<payment_gateway_address>/<merchant_address>.
failUrl	ANS..512	No	The address to which the user is to be redirected in case of a failed payment. The address must be specified in full including the protocol used (for example, https://test.ru instead of test.ru). Otherwise, the user will be redirected to the address of the following type: http://<payment_gateway_address>/<merchant_address>. The parameter is optional. In this case, an unsuccessful payment will lead to a redirect to returnUrl, in the same way it happens when the payment is successful.

Name	Type	Mandatory	Description
dynamicCallbackUrl	ANS..512	No	This parameter enables dynamic callback functionality. In it, you can pass the address to which all «payment» callback notifications activated for the merchant will be sent. Payment-related notifications are callback notifications about the following events: successful hold, payment rejected by timeout, cardpresent payment rejected, successful debiting, refund, reversal. Notably, payment-unrelated callbacks that are active for the Merchant (enabling/disabling a binding, binding creation) will be sent to static callback URL.

Name	Type	Mandatory	Description									
params	See column with the description.	No	Additional tag with the attributes for passing additional parameters. The fields for additional information and its subsequent storage. These fields can be submitted for processing by the bank for further display in the registers. By default, the order number orderNumber and its description orderDescription are passed to the bank for processing (no more than 99 characters, «%» (percentage), «+» (plus), «\r» (carriage return) and «\n» (line feed) are prohibited for using). Enabling the functionality is possible upon agreement with the Bank during the integration period. To pass N parameters, a request must contain N params tags, where the name attribute contains the parameter name and value attribute contains its value:									
			<table><tr><th>Name</th><th>Type</th><th>Description</th></tr><tr><td>Name name Type AN..20 Type2 ANS..255 Type3 A7 Type4 ANS..100 Description REST Name of the additional parameter. REST Online Lending The attribute name, always takes the value of mdOrder. WS Name of the additional parameter. Spasibo Name or the description of an item in any format. Spasibo2 Name of the parameter describing the details of a line item</td><td rowspan="2">ANS..255</td><td rowspan="2">Name of the additional parameter.</td></tr><tr><td>value</td><td>AN..1024</td><td>The value of the additional parameter is up to 1024 characters.</td></tr></table>	Name	Type	Description	Name name Type AN..20 Type2 ANS..255 Type3 A7 Type4 ANS..100 Description REST Name of the additional parameter. REST Online Lending The attribute name, always takes the value of mdOrder. WS Name of the additional parameter. Spasibo Name or the description of an item in any format. Spasibo2 Name of the parameter describing the details of a line item	ANS..255	Name of the additional parameter.	value	AN..1024	The value of the additional parameter is up to 1024 characters.
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			value			AN..1024	The value of the additional parameter is up to 1024 characters.					
In the app2app and back2app payment scenario, as well as in the initial payment of recurring payments, the following parameters are also passed. It is forbidden to pass reserved names in the parameter (if they are passed, the order may be rejected): • sbrf_spasibo:amount_bonus • sbrf_sbermiles:amount_bonus • loyaltyId												

[See description below](#)

Name	Type	Mandatory	Description
clientId	ANS..255	No	Identifier of the Customer in the Store system. This parameter is used for the binding functionality. May be present if the store is allowed to create bindings. Specifying this parameter when processing payments with the use of bindings is mandatory. Otherwise, a payment will be unsuccessful.
merchantLogin	ANS..255	No	To register an order on behalf of a child Merchant, specify the Merchant login in this parameter.
features	AN..255	No	Container for the feature parameter, the available values for the parameter are: • VERIFY - if this parameter is specified, after the request for order registration, the cardholder is to be verified without debiting funds from the cardholder account. Thus it is possible to pass a zero amount in the request. This verification allows the Merchant to ensure that a card belongs to the cardholder and to debit this card in the future without verifying authentication data (CVC, 3-D Secure) when processing subsequent payments. • Even if the payment amount is to be passed in the request, it will not be debited from the account. • After the order has been successfully registered, it is put to the REVERSED (cancelled) status. • AUTO_PAYMENT - if the request for order registration initiates auto-payments. • FORCE_TDS - Forced payment using 3-D Secure enrollment check. If the card is not enrolled in 3-D Secure, then the payment will take place with ECI = 01/06. • FORCE_SSL - use of SSL is enforced for the payment (no 3-D Secure). • FORCE_FULL_TDS - after authentication using 3-D Secure, the PaRes status must only be Y, which guarantees successful user authentication. Otherwise, the transaction will fail. • WITHOUT_FROM_CARD - If a p2p order was registered with such a feature, then on an attempt to execute perform with TransferType.STANDARD will be rejected. With a message that the order was registered with a feature WITHOUT_FROM_CARD • WITHOUT_TO_CARD - If a p2p order was registered with such a feature, then on an attempt to execute perform with TransferType.STANDARD will be rejected. With a message that the order was registered with a feature WITHOUT_TO_CARD Below is an example of how to use this parameter. <pre><features> <feature>AUTO_PAYMENT</feature> </features></pre>
autocompletionDate	ANS..19	No	Date and time of the two-phase payment autocompletion in the following format. 2017-12-29T13:02:51 To enable this functionality, please contact technical support.
email	ANS..40	No	Customer's email address.

Name	Type	Mandatory	Description
phone	NS..12	No	Customer's phone number. It can be of the following format: $^((+7 7 8)?([0-9]){10})\$$. Examples: +790000000000 890000000000 900000000000 790000000000 If the number is passed in a separate parameter and in additional parameters, the number specified in this phone parameter will be used.
billingPayerData	See description	No	Customer's registration data (street address, postal code). Required for AVS/AVV checks. Mandatory if «AVS/AVV use allowed» permission is enabled for merchant

By default, the following fields are passed to the Bank processing system:

- `orderNumber` - order number in the store system;
- `description` - order description (no more than 24 characters; %, +, carriage return \r, and line feed \n cannot be used).

billingPayerData block parameters

Name	Type	Mandatory	Description
billingCity	AN..50	No	City registered for the card at the Issuer Bank.
billingCountry	AN..50	No	
billingAddressLine1	AN..50	No	Address registered for the card at the Issuer Bank. Line 1. Mandatory if «AVS/AVV use allowed» permission is enabled for merchant.
billingAddressLine2	AN..50	No	Address registered for the card at the Issuer Bank. Line 2.
billingAddressLine3	AN..50	No	Address registered for the card at the Issuer Bank. Line 3.
billingPostalCode	AN..50	No	Postal code registered for the card at the Issuer Bank. Mandatory if «AVS/AVV use allowed» permission is enabled for merchant.
billingState	AN..50	No	State registered for the card at the Issuer Bank (ISO 3166-2).

Parameters for app2app payment scenario

Name	Type	Required	Description
app2app	Boolean	No	Attribute indicating the payment method through the SBOL application (app2app). The following values are available: • true • false To use this parameter, the merchant must have the corresponding permission enabled.
app.osType	ANS..32	See description	OS type. The possible values are: • ios; • android. Required only if app2app=true.
app.deepLink	ANS..255	See description	Link to the merchant's application for a return with successful payment. Required only if app2app=true.

Parameters for the back2app payment scenario

Name	Type	Mandatory	Description
back2app	boolean	No	Attribute indicating a payment method for back2app scenario

Recurring payment parameters

In the initial payment of recurring payments, the parameters specified below are passed.

- recurringFrequency – the period of recurrent payments in days (an integer from 1 to 28).
- recurringExpiry – the expiration date for recurrent payments (in the format YYYYMMDD).

If the request contains only one parameter or at least one parameter does not match the format, the request will fail.

Response parameters

The response parameters are given in table below.

Name	Type	Mandatory	Description
orderId	ANS36	No	Identifier of the order in the payment system. It is unique within the system. The identifier is missing if the order registration failed due to an error detailed in errorCode.
formUrl	AN..512	No	Payment form URL to redirect the client's browser to. This parameter is not returned if the registration of the order was not successful due to the error described in errorCode. To be able to accept payment in this way, you must have the respective rights in the system. If in doubt, contact technical support.
errorCode	N3	No	Error code.
errorMessage	AN..512	No	Error description in the language passed in the language parameter in the request.

Name	Type	Mandatory	Description
externalParams	See description	No	A block of key-value pairs, which is returned along with payment using the app2app and back2app schemes. The following parameters can be used (see table below). Below is an example of a response with an externalParams block. <pre><ns1:registerOrderResponse xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant"> <return orderId="79cdbadf-4ec9-78e0-8c22-62f700a20c60" errorCode="0" errorMessage="Success"> <formUrl>https://host/payment/merchants/rbs/payment_ru.html?mdOrder=79cdbadf-4ec9-78e0-8c22-62f700a20c60</formUrl> <externalParams> <entry> <key>sbolBankInvoiceId</key> <value>79cdbadf-4ec9-78e0-8c22-62f700a2</value> </entry> <entry> <key>sbolDeepLink</key> <value>https://test.ru</value> </entry> </externalParams> </return> </ns1:registerOrderResponse></pre>

externalParams parameters in app2app payment scenario

Name	Type	Mandatory	Description
sbolDeepLink	ANS..1024	No	Link to the Bank's application to complete the payment.
sbolBankInvoiceId	ANS..1024	No	Unique order identifier generated by the Bank.
sbolInactive	Boolean	No	Attribute informing about the ongoing routine maintenance. Value <code>true</code> - if routine maintenance is being carried out Value <code>false</code> - if routine maintenance is not carried out The parameter can appear if the merchant has the corresponding permission enabled, and app2app = <code>true</code>.

externalParams parameters for back2app payment scenario

Name	Type	Mandatory	Description
sbolInactive	Boolean	No	Attribute informing about ongoing routine maintenance Value <code>true</code> - if routine maintenance is being carried out Value <code>false</code> - if routine maintenance is not carried out
sbolBankInvoiceId	ANS..1024	No	Unique order identifier generated by the Bank.

Error codes

Error code	Error text
0	The request has been processed without system errors.
1	Wrong order number.
1	An order with this number has already been processed.
3	Unknown currency.
4	The amount is missing.
4	Order number is empty
4	Empty return URL
5	Payments using pre-authorization are forbidden.
5	A parameter value has been specified incorrectly.
5	Access denied.
5	The user must change the password.

Error code	Error text
7	System error.
13	The merchant does not have the permission to process verification payments.
14	Features are specified incorrectly.

Examples

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>https://server/applicaton_context/finish.html</returnUrl>
      <params name="param1" value="paramValue1"/>
      <params name="param2" value="paramValue2"/>
      <clientId>7777</clientId>
      <merchantLogin> </merchantLogin>
      <features>
        <feature>AUTO_PAYMENT</feature>
      </features>
    </order>
  </mer:registerOrderPreAuth>
</soapenv:Body>
</soapenv:Envelope>
```

Пример ответа

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:registerOrderPreAuthResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
      <return orderId="5e5dc6bd-dee3-4c96-849a-09f3f575f4b6"
errorCode="0" errorMessage="Success">
        <formUrl>
https://server/merchants/rbs/payment_ru.html?mdOrder=5e5dc6bd-dee3-4c96-849a
-09f3f575f4b6 </formUrl>
        </return>
      </ns1:registerOrderPreAuthResponse>
    </soap:Body>
```

</soap:Envelope>