**Alfabank IPS**

**Merchant Manual (fiscalization)**

0

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Introduction

The payment gateway accepts a payment request from a store for a Cart of goods that belong to one Order.
The Cart details the items within the Order for which a payment is to be made.
The data required for printing a receipt is also passed within the payment request.

Requirements to requests processed through Merchant API. SOAP and REST protocols

Requirements to forming requests for registration of an Order with a Cart

Requests for registration of an Order (with- and without pre-authorization) pass the Cart data in the <orderBundle> parameter.

* Prices of all the items within a Cart must be specified in one currency (if the currency of an item is to be specified); and this currency must match the currency of the Order.
* The total of all items of a Cart must be equal to the total of the corresponding Order.
* A passed value of the <quantity> parameter is to be checked for each item. If the value is too large or too small, the request will result in an error.
* All the parameters of the Cart are to be checked for meeting the required format (length).

If any of the above mentioned conditions is not met, an Order is considered to be formed incorrectly and the Payment Gateway returns an error.

Requirements to forming requests for completion of an Order with a Cart

On completing an Order, the Cart data is passed within the <depositItems> parameter.

* In the case of completing an Order with a full pre-authorized amount, passing the Cart data is optional.
* The deposit amount must not exceed the pre-authorized amount.
* When completing an Order for an amount that differs from the amount of the pre-authorization (apart from passing the 0 value), the data on the Cart of items must mandatory be passed.
* Prices of all the items in the Cart must be specified in the same currency (if the currency of items is to be specified) and must match the currency of the original Order.
* It is prohibited to pass in the Cart new items, which are missing from the original Order. The given article from the Cart of the completion request is checked for the presence in the initial Order. The <positionId>, <name>, and <itemCode> must coincide. If at least one value does not coincide, it is considered that the item is missing from the Cart of the registration Order request.
* The value of the <quantity> parameter in the Cart of the completion request must not exceed the value of the same parameter in the Cart of the registration Order request.
* The <itemAmount> parameter value of the <items> block must not exceed the value of the same parameter in the original request.
* A passed value of the <quantity> parameter is to be checked for each item. If the value is too large or too small, the request will result in an error.
* All the parameters of the Cart are to be checked for meeting the required format (length).

If any of the above mentioned conditions is not met, the completion Order is considered to be formed incorrectly and the Payment Gateway returns an error.

Requirements to forming requests for completion of an Order with a Cart

In the request, the Cart data is specified in the <refundItems> block.

* In case of a full refund, passing the Cart of items data is optional.
* When making a refund for an amount that differs from the amount that has been charged (apart from passing the «0» value), the data on the Cart of items must be mandatory passed.
* In case of making several refunds for Orders with Carts, all of those refunds must be performed using the algorithm for making a refund with the Cart data passed.
* The refund amount must not exceed the confirmed amount of the original Order.
* Prices of all the items in the Cart must be specified in the same currency (if the currency of items is to be specified) and must match the currency of the original Order.
* It is prohibited to pass in the Cart new items, which are missing from the original Order. The given article in the Cart of the refund request is checked for presence in the initial request. The <positionId>, <name>, and <itemCode> must coincide. If at least one value does not coincide, it is considered that the item is missing from the original Order.
* The value of the <quantity> parameter in the Cart of the completion request must not exceed the value of the same parameter in the Cart of the registration Order request.
* The <itemAmount> parameter value of the <items> block must not exceed the value of the same parameter in the original request.
* All the parameters of the Cart are to be checked for meeting the required format (length).

If any of the above mentioned conditions is not met, the Order refund request is considered to be formed incorrectly and the Payment Gateway returns an error.

Interaction schemes with different payment types

One-phase payment



Two-phase payment



WebService-ах interface

Requests used on a one-phase payment

### Order registration request

To register an order in the system, the registerOrder request is used. The data on the contents of the Cart is passed in the <orderBundle> parameter.

The section "[Requirements to forming requests for registration of an Order with a Cart](#scroll-bookmark-44)" contains a list of conditions that are necessary to correctly form a request.

|  |
| --- |
| If the data on the Cart and the fiscalization data are not passed in the request, the default values specified in the personal area are passed to the Operator of Fiscal Data, OFD (see the instruction on working with the personal area). |

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| merchantOrderNumber | ANS..32 | yes | 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 first 24 symbols of this field are passed to the Bank processing system to be included into financial reports.

|  |
| --- |
| To enable sending this field to the processing system, contact the technical support service. |

 |
| amount | N..20 | yes | Payment amount in the minor denomination of the currency. |
| currency | N3 | no | ISO 4217 code of the payment currency. If the code is not specified, it is considered to be equal to the default currency code. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, the default language specified in the store settings is to be used. |
| pageView | ANS..20 | no | Value of this parameter defines what pages of the payment interface are to be loaded for the customer. The available values are:* DESKTOP — to load pages the layout of which is designed for displaying on monitors of PCs (a search for pages with names payment\_<locale>.html and errors\_<locale>.html will be carried out in the archive of payment interface pages);
* MOBILE — to load pages the layout of which is designed for displaying on screens of mobile devices (a search for pages with names mobile\_payment\_<locale>.html and mobile\_errors\_<locale>.html will be carried out in the archive of payment interface pages);
* If a store has created its own pages of the payment interface by having added arbitrary prefixes to the names of page files, a value of the necessary prefix is to be passed in the pageView parameter to load the corresponing page. For example, on passing the value iphone a search will be carried out for pages with names iphone\_payment\_<locale>.html and iphone\_error\_<locale>.html in the archive of payment interface pages.

Where:locale is the language of the page in the ISO 639-1 encoding. For example, ru for Russian or en for English.If the parameter is missing or does not meet the format, by default it is considered that pageView=DESKTOP. |
| sessionTimeoutSecs | N...9 | no | Order lifetime in seconds. If the parameter is not specified, its default value specified in the settings of the merchant or the default lifetime (1200 seconds = 20 minutes) will be used . If a request contains the expirationDate parameter, the value of the sessionTimeoutSecs parameter is ignored. |
| bindingId | AN..255 | no | Identifier of the binding that has been created earlier. It can be used only if a store has a permission to work with bindings. If this parameter is passed in this request, it means the following:1. The given Order can be paid only with a binding;2. The payer will be redirected to the payment page on which only entering CVC is required. |
| expirationDate | ANS | no | Date and time of expiration of the Order lifetime. The format used: yyyy-MM-dd'T'HH:mm:ss.If this parameter is not passed in the request, the sessionTimeoutSecs parameter is used to define the expiration time of the Order.  |
| returnUrl | AN..512 | yes | Address to which a user is to be redirected in case of a successful 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 an address of the following type: **http://<payment\_gateway\_address>/<merchant\_address>**. |
| failUrl | AN..512 | no | Address to which a user is to be redirected in case of an unsuccessful 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 an address of the following type: **http://<payment\_gateway\_address>/<merchant\_address>**. |
| params |   | no | Tag containing the attributes used to pass additional merchant parameters.Addtitional information fields for the subsequent storage. To pass N parameters, a request must contain N params tags, where the name attribute contains the name of a parameter and the value attribute contains its value:

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

These fields may be passed to the Bank processing system for the further displaying in registers.\*Enabling this functionality is possible upon agreement with the Bank during the integration period. If for a merchant sending notifications to a customer is set up, the customer's email address must be passed in this tag in the email parameter.  Additional parameter branch allows to pass a number or identifier of a branch connected to a certain cash register equipment group. This parameter is used for a phased introduction of fiscalization in large organizations. To allow this parameter to be processed contact our technical support.Below is an example of how to use this parameter.<params name="branch" value="339"/>In this example branch number/identifier 339 is passed to the Payment Gateway. |
| clientId | ANS..255 | no | Number (identifier) of the customer in the store system. This parameter is used to implement the bindings functionality. The parameter can be present in the request if creating bindings is enabled for the store. |
| merchantLogin | AN..255 | no | To register an Order on behalf of a child merchant, specify the merchant login in this parameter. |
| [orderBundle](#scroll-bookmark-47) |  |  | Tag that contains the data on the Cart of the Order. The description of the tag attributes is given below. |
| taxSystem | N..2 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Taxation system. The following values are available:* **0** — general;
* **1** — simplified, with only revenue taken into account;
* **2** — simplified, the revenue minus the expenditure;
* **3** — uniform tax on imputed income;
* **4** — unified agricultural tax;
* **5** — patent taxation system.
 |

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

* + - merchantOrderNumber — Order number in the store system;
		- description — Order description (the maximum length is 99 symbols, it is prohibited to use %, +, end of line \r and line break \n).

If an additional parameter, merchantOrderId, is passed in the request, the value of this parameter will be sent to the Bank processing system as the Order number (instead of the value of the orderNumber field).

**orderBundle** tag parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request all the parameters that it contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderCreationDate | ANS..21 | no | Order creation date in the format YYYY-MM-DDTHH:MM:SS |
| [customerDetails](#scroll-bookmark-48) |  | no | Tag containing attributes with data on a customer. The description of the tag attributes is given below. |
| [cartItems](#scroll-bookmark-49) |  | yes | Tag contaiting the attributes of the Cart items. The description of the tag attributes is given below. |

**customerDetails** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request all the parameters that it contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| email | ANS..40 | No | Customer's email address. You can specify several email addresses using commas without spaces as delimiters - in this case the receipt will be sent to all specified email addresses.It is mandatory to pass one of the two parameters: email или phone. |
| phone | ANS.12 | No | Customer's phone number.It is mandatory to pass one of the two parameters: email или phone. |
| contact | ANS..40 | No | Customer's preferred way of communication. |
| [deliveryInfo](#scroll-bookmark-50) |  | No | Tag containing the attributes of the delivery address. The description of the tag attributes is given below. |

 **deliveryInfo** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| deliveryType | ANS..20 | no | Delivery type |
| country | A..2 | yes | Country of destination (in accordance with ISO 3166-1) |
| city | ANS..40 | yes | City of destination |
| postAddress | ANS..255 | yes | Address of destination |

**cartItems** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-51) |  | yes | Tag containing the parameters with the data on one item from the Cart .Item number is specified as an attribute of the tag:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | ANS..12 | yes | Unique identifier of an item within the Cart of the Order |

A request must contain a separate items tag for each Order item . The description of the tag parameters is given below. |

 **items** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-52) |  | no | Additional tag containing the parameters describing an item. The description of the tag attributes is given below. |
| quantity | N..18 | yes | This parameter contains the quantity of items in one positionId. A decimal point is used as a separator in fractions.The unit of measurement is passed as the attribute:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances |

 |
| itemAmount | N..18 | yes | The total cost of all instances of one positionId specified in minor denomination of the currency. |
| itemCurrency | N..3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system. The parameter must be unique within a request. |
| [discount](#scroll-bookmark-53) |  | no | Additional tag containing attributes of the description of a discount for an item. The description of the tag attributes is given below. |
| [agentInterest](#scroll-bookmark-54) |  | no | Additional tag containing attributes of the description of an agent fee for the sale of goods. The description of the tag attributes is given below. |
| [tax](#scroll-bookmark-55) |  | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Tag containing parameters to describe a tax. |
| itemPrice | N..18 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Price of an item of a given positionId in minor denomination of the currency. Mandatory for merchants using fiscalization |

**itemDetails** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| itemDetailsParams | ANS..255 | no | Parameter contains the value of a certain characteristic of an item.The characteristic name is specified as an attribute:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | AN..255 | yes | The name of the characteristic describing an item. |

Every item characteristic must be passed in a separate parameter. itemDetailsParams. |

**discount** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

**tax** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.

Mandatory for merchants using fiscalization |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | ANS36 | no | Order number in the payment system. The number is unique within the system. The number is missing if registration of an Order has failed due to an error detailed in errorCode. |
| formUrl | AN..512 | no | URL of the payment form, to which a customer is to be redirected. The URL is not returned if registration of an Order has failed due to an error detailed in errorCode. |
| errorCode | N3 | yes | Error code. |
| errorMessage | AN..512 | no | Error description in the language passed in the language parameter of the request. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors. |
| 1 | Incorrect order number. |
| 1 | An order with this number has already been processed. |
| 3 | Unknown currency. |
| 4 | The amount is missing. |
| 4 | Order number cannot be empty. |
| 4 | Return URL cannot be empty. |
| 5 | A parameter value has been specified incorrectly. |
| 5 | Access is denied. |
| 5 | The user must change their password. |
| 7 | System error. |
| 8 | A mandatory parameter of the Cart is missing (with indication of the missing parameter). |
| 8 | The currency of the Cart does not match the currency of the Order. |
| 8 | The amount for items in the Cart does not match the total amount of the Order. |
| 8 | Non-existent identifier of a bonus programme. |
| 8 | The value of the quantity parameter is too large or too small. |

**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="110a88qerf8kfqdarf" description=" " amount="24000" currency=" " pageView=" " sessionTimeoutSecs="5400" binding=" " expirationDate=" "> <!--Optional:--> <returnUrl>https://web.rbsuat.com/ab/finish.html</returnUrl> <!--Zero or more repetitions:--> <params name="param1" value="valueParam1"/> <params name="param2" value="valueParam2"/> <!--Optional:--> <clientId>666</clientId> <!--Optional:--> <merchantLogin> </merchantLogin> <taxSystem>0</taxSystem> <!--Optional:--> <orderBundle> <!-- Optional: --> <orderCreationDate>2013-07-12T13:51:00</orderCreationDate> <!-- Information on the customer --> <!-- Optional: --> <customerDetails> <!-- Optional: --> <email>johnsmith@mail.ru</email> <!-- Optional: --> <phone>79851231234</phone> <!-- Optional: --> <contact>Mega Tester</contact> <!-- Optional: --> <deliveryInfo> <!-- Optional: --> <deliveryType>courier</deliveryType> <country>RU</country> <city>Moscow</city> <postAddress> Bld. 2, 50A/8 Zemlyanoy Val St.</postAddress> </deliveryInfo> </customerDetails> <!-- Contents of the Cart --> <cartItems> <!-- Zero or more repetitions: --> <items positionId="1"> <name>Metzeler Enduro 3 Sahara</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Metzeler</itemDetailsParams> <itemDetailsParams name="radius">17inch</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>8000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>T-M-14</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>8000</itemPrice> </items> <items positionId="2"> <name>Universal Mirror Enduro</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Noname</itemDetailsParams> <itemDetailsParams name="diameter">12mm</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>8000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>NM-15</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>8000</itemPrice> </items> <items positionId="3"> <name>Warm Grips</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Noname</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>8000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>G-16</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>8000</itemPrice> </items> </cartItems> </orderBundle> </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="531eaa8d-b32d-46dd-8e48-64b873886e70" errorCode="0" errorMessage="Success"> <formUrl>https://web.rbsuat.com/ab/payment\_ru.html?mdOrder=531eaa8d-b32d-46dd-8e48-64b873886e70</formUrl> </return> </ns1:registerOrderResponse> </soap:Body></soap:Envelope> |

### Request for cancellation of a payment for an Order

To cancell an Order, the reverseOrder request is used. The payment cancellation functionality is available within a limited time period after processing a payment. The exact period duration should be found out from the Bank.

The payment cancellation operation can be executed only once. If the operation completes with an error, a repeated operation of the payment cancellation will be impossible.

This functionality can be available for stores upon agreement with the Bank. To be able to execute a cancellation operation, a user must have the corresponding permissions.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | ANS36 | yes | Order number in the payment system. The number is unique within the system. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | no | Error code. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. |

Error codes (the errorCode field):

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | The [orderId] parameter is not set up |
| 6 | Incorrect order number |
| 7 | Invalid operation for the current state of the Order |
| 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="ru" 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="Invalid operation for the current status of the Order"/>  </ns1:reverseOrderResponse>  </soap:Body>  </soap:Envelope> |

### The request for a full refund of the funds paid for the Order

The refundOrder request is used for a full refund of the funds paid for the Order. On this request, the funds spent on the Order will be returned to the payer. The request will complete with an error if the funds have not been charged for this Order.

This operation in availble for the users who have the corresponding permissions in the system.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| refundAmount | N..5 | yes | Refund amount in the Order currency (in minor denomination). The refund amount must be equal to the Order amount. |
| language | A2 | no | Language code in accordance with ISO 639-1. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |
| params |  | no | Additional tag containing the attributes used to pass additional merchant parameters\* |

\* Addtitional information fields for the subsequent storage. These fields may be passed to the Bank processing system for the further displaying in registers.\*\*

Enabling this 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 name of a parameter and the value attribute contains its value:

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

\*\* *By default the orderNumber field and its description (the maximum length is 99 symbols, it is prohibited to use %, +, end of line \r and line break \n) are passed to the Bank processing system*

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. The available values and their descriptions are given in the table below. |
| errorMessage | AN..512 | no | Error description in the language passed in the language parameter of the request. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | Order number is not specified |
| 5 | Incorrect amount |
| 6 | Incorrect order number |
| 7 | Payment must be in an appropriate state |
| 7 | Refund amount exceeds the charged amount |
| 7 | System error |
| 8 | Specified refund amount does not match the full amount of the Order. For a partial refund the presense of the Cart data is required |

**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="ru" orderId="3b32da16-1171-42c0-9d4e-bb6e243ff11d" refundAmount="24000"> <!--Optional:--> <!--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="0"/> </ns1:refundOrderResponse> </soap:Body></soap:Envelope> |

### Request for a partial refund of an Order payment

The refundOrder request with the Cart of returned goods as mandatory parameters is used for partial refunds. On this request, the funds spent on the Order will be returned to the payer.

The request will complete with an error if the funds have not been charged for this Order. The system permits returning funds more than once, but the refunded amount must not exceed the initially charged amount.

|  |
| --- |
| For error-free processing of the request it is sufficient to pass the quantity and positionId parameters. |

The "[Requirements to forming requests for registration of an Order with a Cart](#scroll-bookmark-46)" section contains the list of conditions necessary to correclty form the request.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| refundAmount | N..5 | yes | Refund amount in the Order currency (in minor denomination). The refund amount must match the total of amounts of all returned items. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |
| params |  | no | Additional tag containing the attributes used to pass additional merchant parameters\* |
| [refundItems](#scroll-bookmark-56) |  |  | Tag used to pass the information of the items being returned — the number of an item in the request, the item name, its details, unit of measurement, quantity, currency, article code, discount, and the agent profit. |

\* Addtitional information fields for the subsequent storage. These fields may be passed to the Bank processing system for the further displaying in registers.\*\*

Enabling this 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 name of a parameter and the value attribute contains its value:

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

\*\* *By default the orderNumber field and its description (the maximum length is 99 symbols, it is prohibited to use %, +, end of line \r and line break \n) are passed to the Bank processing system*

**refundItems** parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-57) |  | yes | An element of the array containing attributes of an item in the Cart |

**items** element attributes:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | ANS..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-58) |  | no | Additional tag containing the parameters describing an item |
| quantity | N..18 | yes | Element describing the total of items of one positionId and its unit of measurement. A decimal point is used as a separator in fractions.For this parameter the following attribute is to be specified:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances |

 |
| itemAmount | N..18 | yes | Refunded amount for the given positionId in minor denomination of the currency. This amount can be equal to— or less than the amount of payment for the given positionId. |
| itemCurrency | N..3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system |
| [discount](#scroll-bookmark-59) |  | no | Additional tag containing attributes for the description of a discount on the item |
| [agentInterest](#scroll-bookmark-60) |  | no | Additional tag containing attributes of the description of an agent fee for the sale of goods |
| [tax](#scroll-bookmark-61) |  | no | Additional tag containing attributes of the description of a tax. This block can be passed if for a store the fiscalization settings are specified, but the block is not mandatory (values of the parameters from this block will not be checked). |
| itemPrice | N..18 | no | Price of an item of a given positionId in minor denomination of the currency. This block can be passed if for a store the fiscalization settings are specified, but it is not mandatory (values of the parameters from this block will not be checked). |

**itemDetails** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-62) | ANS..255 | no | Parameter that contains additional information on an item |

**itemDetailsParams** parameter attributes:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | AN..255 | yes | Name of the parameter describing the details of an item |

**discount** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

 **agentInterest** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

 **tax** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.
 |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. The available values are given in the table below. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the language parameter. May be missing if errorCode=0. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | Successfully |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | The [orderId] parameter is not set up |
| 5 | Incorrect amount |
| 6 | Incorrect order number |
| 7 | Payment must be in an appropriate state |
| 7 | Refund amount exceeds the charged amount |
| 7 | System error |
| 8 | A mandatory parameter of the Cart is missing |
| 8 | The currency of the Cart does not match the currency of the Order |
| 8 | An incorrect item for a refund |
| 8 | The quantity of instances of the item to be refunded is exceeded in the Cart |
| 8 | The cost of the item to be refunded is exceeded |

**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="ru" orderId="531eaa8d-b32d-46dd-8e48-64b873886e70" refundAmount="10000"> <!--Optional:--> <refundItems> <!--Zero or more repetitions:--> <items positionId="1"> <name>Metzeler Enduro 3 Sahara</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Metzeler</itemDetailsParams> <itemDetailsParams name="radius">17inch</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>7000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>T-M-14</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>7000</itemPrice> </items> <items positionId="2"> <name>Universal Mirror Enduro</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Noname</itemDetailsParams> <itemDetailsParams name="diameter">12mm</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>3000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>NM-15</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>3000</itemPrice> </items> </refundItems> <!--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="0"/> </ns1:refundOrderResponse> </soap:Body></soap:Envelope> |

### An extended request for the Order status

To get the status of a registered Order, the getOrderStatusExtended request is used.

**Request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | ANS36 | yes\* | Order number in the payment system. The number is unique within the system |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |
| merchantOrderNumber | ANS..32 | yes\* | Number (identifier) of the Order in the store system |

\* It is mandatory to pass the orderId or merchantOrderNumber parameter in the request. If both parameters are passed in the request, the priority of orderId is higher.

**Response parameters**
There are several sets of response parameters. It depends on the version of getOrderStatusExtended specified in the settings of the merchant what sets in particular are to be returned.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| orderNumber | AN..32 | yes | Number (identifier) of the Order in the store system | All versions. |
| orderStatus | N2 | no | The status of the Order in the payment system is defined by the value of this parameter. The list of available values is given below. The parameter value is missing if the Order has not been found.* **0** — The Order has been registered, but not paid;
* **1** — A pre-authorized amount is put on hold (for two-phase payments);
* **2** — A full authorization of the Order amount has been executed;
* **3** — Authorizartion is cancelled;
* **4** — A refund operation has been executed for the transaction;
* **5** — Authorization has been initiated though the ACS of the issuing Bank;
* **6** — Authorization has been declined.
 | All versions. |
| actionCode | N3 | yes | Response code. | All versions. |
| actionCodeDescription | AN..512 | yes | Explanation of the response code in the language passed in the request in the Language parameter. | All versions. |
| errorCode | N3 | no | Error code. The following values are available.* **0** — The request has been processed without system errors;
* **1** — [orderId] or [orderNumber] is pending;
* **5** — Access is denied;
* **5** — The user must change their password;
* **6** — The Order is not found;
* **7** — A system error.
 | All versions. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. | All versions. |
| amount | N..20 | yes | Payment amount in kopeks (or cents) | All versions. |
| currency | N3 | no | ISO 4217 code of the payment currency. If the current code is not specified, it is considered to be equal to 810 (Russian roubles). | All versions. |
| date | ANS | yes | Order registration date. | All versions. |
| orderDescription | AN..512 | no | Order description passed on its registration | All versions. |
| ip | AN..20 | yes | IP-address of the customer. | All versions. |
| merchantOrderParams *element — is present in the response if the Order request contains additional parameters of the merchant. Every additional parameter of the Order is present in a separate element* merchantOrderParams*.* |
| name | AN..20 | no | Name of an additional parameter | All versions. |
| value | AN..1024 | no | Value of the additional parameter | All versions. |
| *The* cardAuthInfo *element contains a structure consisting of a list of the* secureAuthInfo *element and the following parameters:* |
| maskedPan | N..19 | no | Masked number of the card that was used for the payment. The masked number is specified only when the Order is paid. | All versions. |
| expiration | N6 | no | Card expiry date in the format YYYYMM. The masked number is specified only when the Order is paid. | All versions. |
| cardholderName | A..64 | no | Name of the holder of the card. The masked number is specified only when the Order is paid. | All versions. |
| approvalCode | AN6 | no | Authorization code for the payment. The field of a fixed length (6 symbols), it can contain numbers and Latin letters. This parameter is to be specified only after the Order is paid. | All versions. |
| chargeback | A..5 | no | Parameter defining whether the funds were forcibly retuned to the customer by the Bank. The available values are:* **true** (true);
* **false** (false).
 | 06 and higher. |
| paymentSystem | N..10 | yes | Name of the payment system. The available values are.* **VISA**;
* **MASTERCARD**;
* **AMEX**;
* **JCB**;
* **CUP**;
* **MIR**.
 | 08 and higher. |
| product | AN..255 | yes | Additional data on corporate cadrs. This data is specified by the support service in the administration console. If this data is missing, an empty value is returned. | 08 and higher. |
| paymentWay | AS..14 | yes | Method of performing the payment (a payment with entering card data, a binding payment, and so on) . | 09 and higher. |
| *The* secureAuthInfo *element (this element consists of the* eci *and* threeDSInfo *elements that are the lists of the parameters* cavv *and* xid*):* |
| eci | N..4 | no | Electronic Commerce Indicator. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| cavv | ANS..200 | no | Value for the cardholder authentication check. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| xid | ANS..80 | no | Electronic Commerce Indicator of the transaction. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| *The* bindingInfo *consists of the parameters:* |
| clientId | ANS..255 | no | Number (identifier) of the customer in the store system passed on the Order registration. The parameter can be present in the request if creating bindings is enabled for the store. | All versions. |
| bindingId | AN..255 | no | Identifier of the binding that has been created on the payment for the Order or that has been used for the payment. The parameter can be present in the request if creating bindings is enabled for the store. | All versions. |
| authDateTime | ANS | no | Date and time of the authorization. | 02 and higher. |
| authRefNum | AN..24 | no | Registration number of the payment authorization that has been assigned to it on the payment registration. | 02 and higher. |
| terminalId | AN..10 | no | Terminal ID. | 02 and higher. |
| *The* paymentAmountInfo *element consists of the following parameters:* |
| approvedAmount | N..20 | no | Amount that has been put on hold on the card (it is used only for two-phased payments). | 03 and higher. |
| depositedAmount | N..20 | no | Amount confirmed for debiting from the card. | 03 and higher. |
| refundedAmount | N..20 | no | Refund amount. | 03 and higher. |
| paymentState | A..10 | no | Order status. | 03 and higher. |
| feeAmount | N..20 | no | Fee amount. | 11 and higher. |
| *The* bankInfo *element consists of the parameters:* |
| bankName | AN..200 | no | The issuing Bank name. | 03 and higher. |
| bankCountryCode | AN..4 | no | Country code of the issuing Bank. | 03 and higher. |
| bankCountryName | AN..160 | no | The name of the country of the issuing Bank specified in the language passed in the request as the language parameter or specified in the language of the user who has called the method if in the request the language is not specified. | 03 and higher. |
| [orderBundle](#scroll-bookmark-63) | See the description | no | Block containg the Cart of items of the Order. The description of the tag attributes is given below. | 03 and higher. |

**Contents of orderBundle**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| [cartItems](#scroll-bookmark-64) | See the description | no | Block with the attributes of the items in the Cart. The description of the tag attributes is given below. | 03 and higher |

**Contents of cartItems**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| [items](#scroll-bookmark-65) | See the description | no | An element of the array containing attributes of an item in the Cart. The description of the tag attributes is given below. | 03 and higher. |

**Contents of items**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| name | ANS..100 | no | Name or the description of an item in any format | 03 and higher. |
| quantity | N..18 | no | This parameter contains the quantity of items in one positionId. A decimal point is used as a separator in fractions.The unit of measurement is passed as an attribute.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| measure | ANS..20 | no | The unit of measurement for the quantity of item instances |

 | 03 and higher. |
| itemAmount | N..18 | no | The total cost of all instances of one positionId specified in minor denomination of the currency. | 03 and higher. |
| itemCurrency | N..3 | no | Currency code of an item according to ISO 4217. | 03 and higher. |
| itemCode | ANS..100 | no | Number (identifier) of an item in the store system. The parameter must be unique within a request. | 03 and higher. |

**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="1499420313736" orderStatus="2" actionCode="0" actionCodeDescription="" amount="10500" currency="643" date="2017-07-07T12:41:11.654+03:00" orderDescription="Description" ip="127.0.0.1" errorCode="0" errorMessage="Successfully"> <attributes name="mdOrder" value="dc84ffbc-1d04-4748-94dc-75d87e91a745"/> <cardAuthInfo maskedPan="555555\*\*5599" expiration="202012" cardholderName="Test" approvalCode="111111"/> <authDateTime>2017-07-07T12:41:12.185+03:00</authDateTime> <terminalId>12345678</terminalId> <authRefNum>111111111111</authRefNum> <paymentAmountInfo paymentState="DEPOSITED" approvedAmount="10500" depositedAmount="10500" refundedAmount="0"/> <bankInfo bankName="SOME BANK IN USA" bankCountryCode="US" bankCountryName="The United States of America"/> <orderBundle> <cartItems> <items positionId="1"> <name>Universal Mirror Enduro</name> <quantity measure="units">3.0</quantity> <itemAmount>6000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>NM-15</itemCode> </items> <items positionId="2"> <name>A ticked to Moscow</name> <quantity measure="units">1.0</quantity> <itemAmount>4500</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>GFCCHC</itemCode> </items> </cartItems> </orderBundle> </return> </ns1:getOrderStatusExtendedResponse> </soap:Body></soap:Envelope> |

Requests used on a two-phase payment

### A request for registration of an Order with the use of pre-authorization

On registering an Order, it is mandatory to additionally pass the data on the contents of the Cart.

The section "[Requirements to forming requests for registration of an Order with a Cart](#scroll-bookmark-44)" contains a list of conditions that are necessary to correctly form a request.

|  |
| --- |
| If the data on the Cart and the fiscalization data are not passed in the request, the default values specified in the personal area are passed to the Operator of Fiscal Data, OFD (see the instruction on working with the personal area). |

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| merchantOrderNumber | ANS..32 | yes | 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 first 24 symbols of this field are passed to the Bank processing system to be included into financial reports.

|  |
| --- |
| To enable sending this field to the processing system, contact the technical support service. |

 |
| amount | N..20 | yes | Payment amount in kopeks (or cents) |
| currency | N3 | no | ISO 4217 code of the payment currency. If the code is not specified, it is considered to be equal to the default currency code. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, the default language from the Store settings is to be used. |
| pageView | ANS..20 | no | Value of this parameter defines what pages of the payment interface are to be loaded for the customer. The available values are:* DESKTOP — to load pages the layout of which is designed for displaying on monitors of PCs (a search for pages with names payment\_<locale>.html and errors\_<locale>.html will be carried out in the archive of payment interface pages);
* MOBILE — to load pages the layout of which is designed for displaying on screens of mobile devices (a search for pages with names mobile\_payment\_<locale>.html and mobile\_errors\_<locale>.html will be carried out in the archive of payment interface pages);
* If a store has created its own pages of the payment interface by having added arbitrary prefixes to the names of page files, a value of the necessary prefix is to be passed in the pageView parameter to load the corresponing page. For example, on passing the value iphone a search will be carried out for pages with names iphone\_payment\_<locale>.html and iphone\_error\_<locale>.html in the archive of payment interface pages.

Where:locale is the language of the page in the ISO 639-1 encoding. For example, ru for Russian or en for English.If the parameter is missing or does not meet the format, by default it is considered that pageView=DESKTOP. |
| sessionTimeoutSecs | N...9 | no | Order lifetime in seconds. If the parameter is not specified, its default value specified in the settings of the merchant or the default lifetime (1200 seconds = 20 minutes) will be used . If a request contains the expirationDate parameter, the value of the sessionTimeoutSecs parameter is ignored. |
| bindingId | AN..255 | no | Identifier of the binding that has been created earlier. It can be used only if a store has a permission to work with bindings. If this parameter is passed in this request, it means the following:1. The given Order can be paid only with a binding;2. The payer will be redirected to the payment page on which only entering CVC is required. |
| expirationDate | ANS | no | Date and time of expiration of the Order lifetime. The format used: yyyy-MM-dd'T'HH:mm:ss.If this parameter is not passed in the request, sessionTimeoutSecs is used to define the expiration time of the Order. |
| returnUrl | AN..512 | yes | Address to which a user is to be redirected in case of a successful 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 an address of the following type: **http://<payment\_gateway\_address>/<merchant\_address>**. |
| failUrl | AN..512 | no | Address to which a user is to be redirected in case of an unsuccessful 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 an address of the following type: **http://<payment\_gateway\_address>/<merchant\_address>**. |
| params |   | no | Tag containing the attributes used to pass additional merchant parameters.Addtitional information fields for the subsequent storage. To pass N parameters, a request must contain N params tags, where the name attribute contains the name of a parameter and the value attribute contains its value:

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

 These fields may be passed to the Bank processing system for the further displaying in registers.\*Enabling this functionality is possible upon agreement with the Bank during the integration period.If for a merchant sending notifications to a customer is set up, the customer's email address must be passed in this tag in the email parameter. Additional parameter branch allows to pass a number or identifier of a branch connected to a certain cash register equipment group. This parameter is used for a phased introduction of fiscalization in large organizations. To allow this parameter to be processed contact our technical support. Below is an example of how to use this parameter. <params name="branch" value="339"/> In this example branch number/identifier 339 is passed to the Payment Gateway. |
| clientId | ANS..255 | no | Number (identifier) of the customer in the store system. This parameter is used to implement the bindings functionality. The parameter can be present in the request if creating bindings is enabled for the store. |
| merchantLogin | AN..255 | no | To register an Order on behalf of a child merchant, specify the merchant login in this parameter. |
| [orderBundle](#scroll-bookmark-66) |  |  | Cart containing the Order items |
| taxSystem | N..2 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Taxation system. The following values are available:* **0** — general;
* **1** — simplified, only revenue is taken into account;
* **2** — simplified, revenue minus the expenditure;
* **3** — uniform tax on imputed income;
* **4** — unified agricultural tax;
* **5** — patent taxation system.
 |

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

* + - merchantOrderNumber — Order number in the store system;
		- description — Order description (the maximum length is 99 symbols, it is prohibited to use %, +, end of line \r and line break \n).

If an additional parameter, merchantOrderId, is passed in the request, the value of this parameter will be sent to the Bank processing system as the Order number (instead of the value of the orderNumber field).

**orderBundle** parameter:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderCreationDate | ANS..21 | no | Order creation date in the format YYYY-MM-DDTHH:MM:SS |
| [customerDetails](#scroll-bookmark-67) |  | no | Tag containing attributes with data on a customer |
| [cartItems](#scroll-bookmark-68) |  | yes | Tag contaiting the attributes of the Cart items |

**customerDetails** block parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| email | ANS..40 | No | Customer's email address. You can specify several email addresses using commas without spaces as delimiters - in this case the receipt will be sent to all specified email addresses.It is mandatory to pass one of the two parameters: email или phone. |
| phone | ANS.12 | No | Customer's phone number.It is mandatory to pass one of the two parameters: email или phone. |
| contact | ANS..40 | No | Customer's preferred way of communication. |
| [deliveryInfo](#scroll-bookmark-69) |  | No | Tag containing the attributes of the delivery address |

 **deliveryInfo** block parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| deliveryType | ANS..20 | no | Delivery type |
| country | A..2 | yes | Country of destination (in accordance with ISO 3166-1) |
| city | ANS..40 | yes | City of destination |
| postAddress | ANS..255 | yes | Address of destination |

.
**cartItems** block parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-70) |  | yes | An element of the array containing attributes of an item in the Cart |

**items** element attributes:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | ANS..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-71) |  | no | Additional tag containing the parameters describing an item |
| quantity | N..18 | yes | Element describing the total of items of one positionId and its unit of measurement. A decimal point is used as a separator in fractions.For this parameter the following attribute is to be specified:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances |

 |
| itemAmount | N..18 | yes | The total of costs of all items of a positionId in kopeks (or in cents) |
| itemCurrency | N..3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system |
| [discount](#scroll-bookmark-72) |  | no | Additional tag containing attributes for the description of a discount on the item |
| [agentInterest](#scroll-bookmark-73) |  | no | Additional tag containing attributes of the description of an agent fee for the sale of goods |
| [tax](#scroll-bookmark-74) |  | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Additional tag containing attributes of the description of a tax. |
| itemPrice | N..18 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Price of an item of a given positionId in minor denomination of the currency Mandatory for merchants using fiscalization |

**itemDetails** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-75) | ANS..255 | no | Parameter that contains additional information on an item |

**itemDetailsParams** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | AN..255 | yes | Name of the parameter describing the details of an item |

**discount** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

**tax** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.

Mandatory for merchants using fiscalization |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | ANS36 | no | Order number in the payment system. The number is unique within the system. The number is missing if registration of an Order has failed due to an error detailed in errorCode. |
| formUrl | AN..512 | no | URL of the payment form, to which a customer is to be redirected. The URL is not returned if registration of an Order has failed due to an error detailed in errorCode. |
| errorCode | N3 | yes | Error code. |
| errorMessage | AN..512 | no | Error description in the language passed in the language parameter of the request. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 1 | Incorrect order number |
| 1 | An order with this number has already been processed |
| 3 | Unknown currency |
| 4 | The amount is missing |
| 4 | Order number cannot be empty |
| 4 | Return URL cannot be empty |
| 5 | A parameter value has been specified incorrectly |
| 5 | Access is denied |
| 5 | The user must change their password |
| 7 | System error |
| 8 | A mandatory parameter of the Cart is missing (with indication of the missing parameter) |
| 8 | The currency of the Cart does not match the currency of the Order |
| 8 | The amount for items in the Cart does not match the total amount of the Order |
| 8 | The value of the quantity parameter is too large or too small |

**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="23a89ioouygnuygjhv" description="short" amount="24000" currency="643" language="ru" pageView=" " sessionTimeoutSecs="5400" bindingId=" "> <returnUrl>https://web.rbsuat.com/ab/finish.html</returnUrl> <!--Zero or more repetitions:--> <params name=" " value=" "/> <!--Optional:--> <clientId>666</clientId> <!--Optional:--> <merchantLogin> </merchantLogin> <taxSystem>0</taxSystem>  <orderBundle> <!-- Optional: --> <orderCreationDate>2013-07-12T13:51:00</orderCreationDate> <!-- Information on the customer --> <!-- Optional: --> <customerDetails> <!-- Optional: --> <email>johnsmith@mail.ru</email> <!-- Optional: --> <phone>79851231234</phone> <!-- Optional: --> <contact>Mega Tester</contact> <!-- Optional: --> <deliveryInfo> <!-- Optional: --> <deliveryType>courier</deliveryType> <country>RU</country> <city>Moscow</city> <postAddress> Bld. 2, 50A/8 Zemlyanoy Val St.</postAddress> </deliveryInfo> </customerDetails> <!-- Contents of the Cart --> <cartItems> <!-- Zero or more repetitions: --> <items positionId="1"> <name>Metzeler Enduro 3 Sahara</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Metzeler</itemDetailsParams> <itemDetailsParams name="radius">17inch</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>8000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>T-M-14</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>8000</itemPrice> </items> <items positionId="2"> <name>Universal Mirror Enduro</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Noname</itemDetailsParams> <itemDetailsParams name="diameter">12mm</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>8000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>NM-15</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>8000</itemPrice> </items> <items positionId="3"> <name>Warm Grips</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Noname</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>8000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>G-16</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>8000</itemPrice> </items> </cartItems> </orderBundle> </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="8c76c56b-426c-435d-a24c-1c0927dd6fca" errorCode="0" errorMessage="Success"> <formUrl>https://web.rbsuat.com/ab/payment\_ru.html?mdOrder=8c76c56b-426c-435d-a24c-1c0927dd6fca</formUrl> </return> </ns1:registerOrderPreAuthResponse> </soap:Body></soap:Envelope> |

### Operation completion with the full pre-authorization amount

The depositOrder request is used to charge the full pre-authorization amount.

This operation can be executed if a user have the corresponding permissions in the system.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| depositAmount | N..5 | yes | To complete the operation with the full pre-authorization amount, it is necessary to send the full amount of the Order or 0.If the "depositAmount" parameter is not specified, the operation will also be completed with the full pre-authorization amount. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | The deposit amount exceeds the amount that has been put on hold |
| 5 | The deposit amount must be greater than zero or not less than 1 rouble. |
| 5 | Access is denied |
| 5 | The user must change their password |
| 6 | Incorrect order number |
| 6 | The [orderId] parameter is not set up |
| 7 | Payment must be in an appropriate state |
| 7 | System error |
| 8 | Specified completion amount does not match the full amount of the Order. The Cart data is mandatory to complete the operation with a partial pre-authorization amount |

**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="8c76c56b-426c-435d-a24c-1c0927dd6fca" depositAmount=" "> <!--Optional:--> <!--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="0"/> </ns1:depositOrderResponse> </soap:Body></soap:Envelope> |

### A request for the operation completion with a partial pre-authorization amount

The depositOrder request with the Cart data mandatory specified can be used for charging a partial pre-authorization amount.

To be able to execute this operation, a user must have the corresponding permissions.

The section "[Requirements to forming requests for completion of an Order with a Cart](#scroll-bookmark-45)" contains the list of conditions necessary to correclty form the request.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| depositAmount | N..5 | yes | The amount to be charged in the currency of the Order (in minor denomination). The amount must coincide with the total amount to be charged for all items in the Cart for the completion operation.  |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |
| [depositItems](#scroll-bookmark-76) |  | yes | Tag contaiting the attributes of the Cart items |

**depositItems** block parameters

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-77) |  | yes | An element of the array containing attributes of an item in the Cart |

**items** element attributes:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | ANS..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-78) |  | no | Additional tag containing the parameters describing an item |
| quantity | N..18 | yes | Element describing the total of items of one positionId and its unit of measurement. Use a decimal point as a separator in fractions.For this parameter the following attribute is to be specified:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances. |

 |
| itemAmount | N..18 | yes | The operation completion amount for the given positionId in minor denomination. |
| itemCurrency | N..3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system |
| [discount](#scroll-bookmark-79) |  | no | Additional tag containing attributes for the description of a discount on the item |
| [agentInterest](#scroll-bookmark-80) |  | no | Additional tag containing attributes of the description of an agent fee for the sale of goods |
| [tax](#scroll-bookmark-81) |  | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Additional tag containing attributes of the description of a tax. |
| itemPrice | N..18 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Price of an item of a given positionId in minor denomination of the currency Mandatory for merchants using fiscalization |

**itemDetails** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-82) | ANS..255 | no | Parameter that contains additional information on an item |

**itemDetailsParams** parameter attributes:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | AN..255 | yes | Name of the parameter describing the details of an item |

**discount** block parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** block parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

 **tax** block parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request, the parameters that it contains must not be passed either.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.

Mandatory for merchants using fiscalization |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. The available values and their descriptions are given in the table below. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. Is missing if errorCode=0. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | The deposit amount must be greater than zero or not less than 1 rouble. |
| 5 | Access is denied |
| 5 | The user must change their password |
| 6 | Incorrect order number |
| 6 | The [orderId] parameter is not set up |
| 7 | Payment must be in an appropriate state |
| 7 | System error |
| 8 | A mandatory parameter of the Cart is missing |
| 8 | The deposit amount exceeds the amount on Order registration |
| 8 | The currency of the Cart does not match the currency of the Order |
| 8 | The amount for items in the Cart does not match the total amount of the Order |
| 8 | The original Order does not contain items with the given number |
| 8 | The value of the quantity parameter is too large or too small |

**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="76d7885f-562a-4bac-abc3-18ecaaaca797" depositAmount="20777"> <!--Optional:--> <depositItems> <!--Zero or more repetitions:--> <items positionId="1"> <name>Metzeler Enduro 3 Sahara</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Metzeler</itemDetailsParams> <itemDetailsParams name="radius">17inch</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>7777</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>T-M-14</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>7777</itemPrice> </items> <items positionId="2"> <name>Universal Mirror Enduro</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Noname</itemDetailsParams> <itemDetailsParams name="diameter">12mm</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>5000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>NM-15</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>5000</itemPrice> </items> <items positionId="3"> <name>Warm Grips</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Noname</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>8000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>G-16</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>8000</itemPrice> </items> </depositItems> <!--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="0"/> </ns1:depositOrderResponse> </soap:Body></soap:Envelope> |

### Request for cancellation of a payment for an Order

To cancell an Order, the reverseOrder request is used. The payment cancellation functionality is available within a limited time period after processing a payment. The exact period duration should be found out from the Bank.

The payment cancellation operation can be executed only once. If the operation completes with an error, a repeated operation of the payment cancellation will be impossible.

This functionality can be available for stores upon agreement with the Bank. To be able to execute a cancellation operation, a user must have the corresponding permissions.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | ANS36 | yes | Order number in the payment system. The number is unique within the system. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | no | Error code. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. |

Error codes (the errorCode field):

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | The [orderId] parameter is not set up |
| 6 | Incorrect order number |
| 7 | Invalid operation for the current state of the Order |
| 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="ru" 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="Invalid operation for the current status of the Order"/>  </ns1:reverseOrderResponse>  </soap:Body>  </soap:Envelope> |

### The request for a full refund of the funds paid for the Order

The refundOrder request is used for a full refund of the funds paid for the Order. On this request, the funds spent on the Order will be returned to the payer. The request will complete with an error if the funds have not been charged for this Order.

This operation in availble for the users who have the corresponding permissions in the system.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| refundAmount | N..5 | yes | Refund amount in the Order currency (in minor denomination). The refund amount must be equal to the Order amount. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |
| params |  | no | Additional tag containing the attributes used to pass additional merchant parameters\* |

\* Addtitional information fields for the subsequent storage. These fields may be passed to the Bank processing system for the further displaying in registers.\*\*

Enabling this 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 name of a parameter and the value attribute contains its value:

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

\*\* *By default the orderNumber field and its description (the maximum length is 99 symbols, it is prohibited to use %, +, end of line \r and line break \n) are passed to the Bank processing system*

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. The available values and their descriptions are given in the table below. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the language parameter. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | Order number is not specified |
| 5 | Incorrect amount |
| 6 | Incorrect order number |
| 7 | Payment must be in an appropriate state |
| 7 | Refund amount exceeds the charged amount |
| 7 | System error |
| 8 | Specified refund amount does not match the full amount of the Order. For a partial refund the presense of the Cart data is required |

**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="ru" orderId="3b32da16-1171-42c0-9d4e-bb6e243ff11d" refundAmount="24000"> <!--Optional:--> <!--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="0"/> </ns1:refundOrderResponse> </soap:Body></soap:Envelope> |

### A request for a partial refund of the funds spent to pay for the Order

The refundOrder request with the Cart of returned goods as mandatory parameters is used for partial refunds. On this request, the funds spent on the Order will be returned to the payer.

The request will complete with an error if the funds have not been charged for this Order. The system permits returning funds more than once, but the refunded amount must not exceed the initially charged amount.

|  |
| --- |
| For error-free processing of the request it is sufficient to pass the quantity and positionId parameters. |

The "[Requirements to forming requests for registration of an Order with a Cart](#scroll-bookmark-46)" section contains the list of conditions necessary to correclty form the request.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| refundAmount | N..5 | yes | Refund amount in the Order currency (in minor denomination). The refund amount must match the total of amounts of all returned items. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |
| params |  | no | Additional tag containing the attributes used to pass additional merchant parameters\* |
| [refundItems](#scroll-bookmark-83) |  |  | Tag used to pass the information of the items being returned — the number of an item in the request, the item name, its details, unit of measurement, quantity, currency, article code, discount, and the agent profit. |

\* Addtitional information fields for the subsequent storage. These fields may be passed to the Bank processing system for the further displaying in registers.\*\*

Enabling this 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 name of a parameter and the value attribute contains its value:

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

\*\* *By default the orderNumber field and its description (the maximum length is 99 symbols, it is prohibited to use %, +, end of line \r and line break \n) are passed to the Bank processing system*

**refundItems** parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-84) |  | yes | An element of the array containing attributes of an item in the Cart |

**items** element attributes:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | ANS..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-85) |  | no | Additional tag containing the parameters describing an item |
| quantity | N..18 | yes | Element describing the total of items of one positionId and its unit of measurement. A decimal point is used as a separator in fractions.For this parameter the following attribute is to be specified:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances. |

 |
| itemAmount | N..18 | yes | Refunded amount for the given positionId in minor denomination of the currency. This amount can be less than the amount of the payment for the given positionId. |
| itemCurrency | N..3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system |
| [discount](#scroll-bookmark-86) |  | no | Additional tag containing attributes for the description of a discount on the item |
| [agentInterest](#scroll-bookmark-87) |  | no | Additional tag containing attributes of the description of an agent fee for the sale of goods |
| [tax](#scroll-bookmark-88) |  | no | Additional block containing attributes for the description of a tax. This block can be passed if for a store the fiscalization settings are specified, but the block is not mandatory (values of the parameters from this block will not be checked). |
| itemPrice | N..18 | no | Price of an item of a given positionId in minor denomination of the currency. This block can be passed if for a store the fiscalization settings are specified, but it is not mandatory (values of the parameters from this block will not be checked). |

**itemDetails** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-89) | ANS..255 | no | Parameter that contains additional information on an item |

**itemDetailsParams** parameter attributes:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | AN..255 | yes | Name of the parameter describing the details of an item |

**discount** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

**tax** tag parameters:

*The necessity of the parameters usage (whether they are mandatory) is indicated for using them within the tag. If the tag is optional and is missing from the request , the parameters that it contains must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.

Mandatory for merchants using fiscalization |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. The available values and their descriptions are given in the table below. |
| errorMessage | AN..512 | no | Error description in the language passed in the language parameter of the request. May be missing if errorCode=0. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | Successfully |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | The [orderId] parameter is not set up |
| 5 | Incorrect amount |
| 6 | Incorrect order number |
| 7 | Payment must be in an appropriate state |
| 7 | Refund amount exceeds the charged amount |
| 7 | System error |
| 8 | A mandatory parameter of the Cart is missing |
| 8 | The currency of the Cart does not match the currency of the Order |
| 8 | An incorrect item for a refund |
| 8 | The quantity of instances of the item to be refunded is exceeded in the Cart |
| 8 | The cost of the item to be refunded is exceeded |

**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="ru" orderId="531eaa8d-b32d-46dd-8e48-64b873886e70" refundAmount="10000"> <!--Optional:--> <refundItems> <!--Zero or more repetitions:--> <items positionId="1"> <name>Metzeler Enduro 3 Sahara</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Metzeler</itemDetailsParams> <itemDetailsParams name="radius">17inch</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>7000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>T-M-14</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>7000</itemPrice> </items> <items positionId="2"> <name>Universal Mirror Enduro</name> <!-- Optional: --> <itemDetails> <!-- Zero or more repetitions: --> <itemDetailsParams name="brand">Noname</itemDetailsParams> <itemDetailsParams name="diameter">12mm</itemDetailsParams> </itemDetails> <quantity measure="units">1</quantity> <itemAmount>3000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>NM-15</itemCode> <!-- Optional: --> <discount> <!-- Optional: --> <discountType>percent</discountType> <!-- Optional: --> <discountValue>5</discountValue> </discount> <!-- Optional: --> <agentInterest> <!-- Optional: --> <interestType>agentPercent</interestType> <!-- Optional: --> <interestValue>7</interestValue> </agentInterest> <tax> <taxType>1</taxType> <taxSum>111</taxSum> </tax> <itemPrice>3000</itemPrice> </items> </refundItems> <!--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="0"/> </ns1:refundOrderResponse> </soap:Body></soap:Envelope> |

### An extended request for the Order status

To get the status of a registered Order, the getOrderStatusExtended request is used.

**Request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | ANS36 | yes\* | Order number in the payment system. The number is unique within the system |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |
| merchantOrderNumber | ANS..32 | yes\* | Number (identifier) of the Order in the store system |

\* It is mandatory to pass the orderId or merchantOrderNumber parameter in the request. If both parameters are passed in the request, the priority of orderId is higher.

**Response parameters**
There are several sets of response parameters. It depends on the version of getOrderStatusExtended specified in the settings of the merchant what sets in particular are to be returned.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| orderNumber | AN..32 | yes | Number (identifier) of the Order in the store system | All versions. |
| orderStatus | N2 | no | The status of the Order in the payment system is defined by the value of this parameter. The list of available values is given below. The parameter value is missing if the Order has not been found.* **0** — The Order has been registered, but not paid;
* **1** — A pre-authorized amount is put on hold (for two-phase payments);
* **2** — A full authorization of the Order amount has been executed;
* **3** — Authorizartion is cancelled;
* **4** — A refund operation has been executed for the transaction;
* **5** — Authorization has been initiated though the ACS of the issuing Bank;
* **6** — Authorization has been declined.
 | All versions. |
| actionCode | N3 | yes | Response code. | All versions. |
| actionCodeDescription | AN..512 | yes | Explanation of the response code in the language passed in the request in the Language parameter. | All versions. |
| errorCode | N3 | no | Error code. The following values are available.* **0** — The request has been processed without system errors;
* **1** — [orderId] or [orderNumber] is pending;
* **5** — Access is denied;
* **5** — The user must change their password;
* **6** — The Order is not found;
* **7** — A system error.
 | All versions. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. | All versions. |
| amount | N..20 | yes | Payment amount in kopeks (or cents) | All versions. |
| currency | N3 | no | ISO 4217 code of the payment currency. If the current code is not specified, it is considered to be equal to 810 (Russian roubles). | All versions. |
| date | ANS | yes | Order registration date. | All versions. |
| orderDescription | AN..512 | no | Order description passed on its registration | All versions. |
| ip | AN..20 | yes | IP-address of the customer. | All versions. |
| merchantOrderParams *element — is present in the response if the Order request contains additional parameters of the merchant. Every additional parameter of the Order is present in a separate element* merchantOrderParams*.* |
| name | AN..20 | no | Name of an additional parameter | All versions. |
| value | AN..1024 | no | Value of the additional parameter | All versions. |
| *The* cardAuthInfo *element contains a structure consisting of a list of the* secureAuthInfo *element and the following parameters:* |
| maskedPan | N..19 | no | Masked number of the card that was used for the payment. The masked number is specified only when the Order is paid. | All versions. |
| expiration | N6 | no | Card expiry date in the format YYYYMM. The masked number is specified only when the Order is paid. | All versions. |
| cardholderName | A..64 | no | Name of the holder of the card. The masked number is specified only when the Order is paid. | All versions. |
| approvalCode | AN6 | no | Authorization code for the payment. The field of a fixed length (6 symbols), it can contain numbers and Latin letters. This parameter is to be specified only after the Order is paid. | All versions. |
| chargeback | A..5 | no | Parameter defining whether the funds were forcibly retuned to the customer by the Bank. The available values are:* **true** (true);
* **false** (false).
 | 06 and higher. |
| paymentSystem | N..10 | yes | Name of the payment system. The available values are.* **VISA**;
* **MASTERCARD**;
* **AMEX**;
* **JCB**;
* **CUP**;
* **MIR**.
 | 08 and higher. |
| product | AN..255 | yes | Additional data on corporate cadrs. This data is specified by the support service in the administration console. If this data is missing, an empty value is returned. | 08 and higher. |
| paymentWay | AS..14 | yes | Method of performing the payment (a payment with entering card data, a binding payment, and so on) . | 09 and higher. |
| *The* secureAuthInfo *element (this element consists of the* eci *and* threeDSInfo *elements that are the lists of the parameters* cavv *and* xid*):* |
| eci | N..4 | no | Electronic Commerce Indicator. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| cavv | ANS..200 | no | Value for the cardholder authentication check. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| xid | ANS..80 | no | Electronic Commerce Indicator of the transaction. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| *The* bindingInfo *consists of the parameters:* |
| clientId | ANS..255 | no | Number (identifier) of the customer in the store system passed on the Order registration. The parameter can be present in the request if creating bindings is enabled for the store. | All versions. |
| bindingId | AN..255 | no | Identifier of the binding that has been created on the payment for the Order or that has been used for the payment. The parameter can be present in the request if creating bindings is enabled for the store. | All versions. |
| authDateTime | ANS | no | Date and time of the authorization. | 02 and higher. |
| authRefNum | AN..24 | no | Registration number of the payment authorization that has been assigned to it on the payment registration. | 02 and higher. |
| terminalId | AN..10 | no | Terminal ID. | 02 and higher. |
| *The* paymentAmountInfo *element consists of the following parameters:* |
| approvedAmount | N..20 | no | Amount that has been put on hold on the card (it is used only for two-phased payments). | 03 and higher. |
| depositedAmount | N..20 | no | Amount confirmed for debiting from the card. | 03 and higher. |
| refundedAmount | N..20 | no | Refund amount. | 03 and higher. |
| paymentState | A..10 | no | Order status. | 03 and higher. |
| feeAmount | N..20 | no | Fee amount. | 11 and higher. |
| *The* bankInfo *element consists of the parameters:* |
| bankName | AN..200 | no | The issuing Bank name. | 03 and higher. |
| bankCountryCode | AN..4 | no | Country code of the issuing Bank. | 03 and higher. |
| bankCountryName | AN..160 | no | The name of the country of the issuing Bank specified in the language passed in the request as the language parameter or specified in the language of the user who has called the method if in the request the language is not specified. | 03 and higher. |
| [orderBundle](#scroll-bookmark-63) | See the description | no | Block containg the Cart of items of the Order. The description of the tag attributes is given below. | 03 and higher. |

**Contents of orderBundle**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| [cartItems](#scroll-bookmark-64) | See the description | no | Block with the attributes of the items in the Cart. The description of the tag attributes is given below. | 03 and higher |

**Contents of cartItems**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| [items](#scroll-bookmark-65) | See the description | no | An element of the array containing attributes of an item in the Cart. The description of the tag attributes is given below. | 03 and higher. |

**Contents of items**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| name | ANS..100 | no | Name or the description of an item in any format | 03 and higher. |
| quantity | N..18 | no | This parameter contains the quantity of items in one positionId. A decimal point is used as a separator in fractions.The unit of measurement is passed as an attribute.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| measure | ANS..20 | no | The unit of measurement for the quantity of item instances |

 | 03 and higher. |
| itemAmount | N..18 | no | The total cost of all instances of one positionId specified in minor denomination of the currency. | 03 and higher. |
| itemCurrency | N..3 | no | Currency code of an item according to ISO 4217. | 03 and higher. |
| itemCode | ANS..100 | no | Number (identifier) of an item in the store system. The parameter must be unique within a request. | 03 and higher. |

**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="1499420313736" orderStatus="2" actionCode="0" actionCodeDescription="" amount="10500" currency="643" date="2017-07-07T12:41:11.654+03:00" orderDescription="Description" ip="127.0.0.1" errorCode="0" errorMessage="Successfully"> <attributes name="mdOrder" value="dc84ffbc-1d04-4748-94dc-75d87e91a745"/> <cardAuthInfo maskedPan="555555\*\*5599" expiration="202012" cardholderName="Test" approvalCode="111111"/> <authDateTime>2017-07-07T12:41:12.185+03:00</authDateTime> <terminalId>12345678</terminalId> <authRefNum>111111111111</authRefNum> <paymentAmountInfo paymentState="DEPOSITED" approvedAmount="10500" depositedAmount="10500" refundedAmount="0"/> <bankInfo bankName="SOME BANK IN USA" bankCountryCode="US" bankCountryName="The United States of America"/> <orderBundle> <cartItems> <items positionId="1"> <name>Universal Mirror Enduro</name> <quantity measure="units">3.0</quantity> <itemAmount>6000</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>NM-15</itemCode> </items> <items positionId="2"> <name>A ticked to Moscow</name> <quantity measure="units">1.0</quantity> <itemAmount>4500</itemAmount> <itemCurrency>643</itemCurrency> <itemCode>GFCCHC</itemCode> </items> </cartItems> </orderBundle> </return> </ns1:getOrderStatusExtendedResponse> </soap:Body></soap:Envelope> |

REST interface

Requests used on a one-phase payment

### Order registration request

To register an order on the payment processing system side, the register.do request is used (see the "[Connection URLs](#scroll-bookmark-90)" section).

The Cart with items is passed in the orderBundle parameter.

The section "[Requirements to forming requests for registration of an Order with a Cart](#scroll-bookmark-44)" contains a list of conditions that are necessary to correctly form a request.

|  |
| --- |
| If the data on the Cart and the fiscalization data are not passed in the request, the default values specified in the personal area are passed to the Operator of Fiscal Data, OFD (see the instruction on working with the personal area). |

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderNumber | AN..32 | yes | Number (identifier) of the Order in the store system |
| amount | N..20 | yes | Payment amount in the minor denomination of the currency. The amount must coincide with the total amount to be charged for all items in the Cart . |
| currency | N3 | no | ISO 4217 currency code of the payment. If the code is not specified, it is considered to be equal to the default currency code. |
| returnUrl | AN..512 | yes | Address to which a user is to be redirected in case of a successful 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 an address of the following type: **http://<payment\_gateway\_address>/<merchant\_address>**. |
| failUrl | AN..512 | no | Address to which a user is to be redirected in case of an unsuccessful 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 an address of the following type: **http://<payment\_gateway\_address>/<merchant\_address>**. |
| description | ANS..512 | no | Description of the Order in any format. Only first 24 symbols of this field are passed to the Bank processing system to be included into financial reports.

|  |
| --- |
| To enable sending this field to the processing system, contact the technical support service. |

 |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, the default language specified in the store settings is to be used |
| pageView | ANS..20 | no | Value of this parameter defines what pages of the payment interface are to be loaded for the customer. The available values are:* DESKTOP — to load pages the layout of which is designed for displaying on monitors of PCs (a search for pages with names payment\_<locale>.html and errors\_<locale>.html will be carried out in the archive of payment interface pages);
* MOBILE — to load pages the layout of which is designed for displaying on screens of mobile devices (a search for pages with names mobile\_payment\_<locale>.html and mobile\_errors\_<locale>.html will be carried out in the archive of payment interface pages);
* If a store has created its own pages of the payment interface by having added arbitrary prefixes to the names of page files, a value of the necessary prefix is to be passed in the pageView parameter to load the corresponing page. For example, on passing the value iphone a search will be carried out for pages with names iphone\_payment\_<locale>.html and iphone\_error\_<locale>.html in the archive of payment interface pages.

Where:locale is the language of the page in the ISO 639-1 encoding. For example, ru for Russian or en for English.If the parameter is missing or does not meet the format, by default it is considered that pageView=DESKTOP. |
| clientId | ANS..255 | no | Number (identifier) of the customer in the store system. This parameter is used to implement the bindings functionality. The parameter can be present in the request if creating bindings is enabled for the store. |
| merchantLogin | AN..255 | no | To register an Order on behalf of a child merchant, specify the merchant login in this parameter. |
| jsonParams | AN..1024 | no | Block for passing additional parameters of the merchant. Addtitional information fields for the subsequent storage are to be passed in the following way:{"<name1>":"<value1>",...,"<nameN>":"<valueN>"},These fields may be passed to the Bank processing system for the further displaying in registers.\*Enabling this functionality is possible upon agreement with the Bank during the integration period.If for a merchant sending notifications to a customer is set up, the customer's email address must be passed in this block in email parameter. Additional parameter branch allows to pass a number or identifier of a branch connected to a certain cash register equipment group. This parameter is used for a phased introduction of fiscalization in large organizations. To allow this parameter to be processed contact our technical support.Below is an example of how to use this parameter.{"branch":"339"}In this example branch number/identifier 339 is passed to the Payment Gateway. |
| sessionTimeoutSecs | N...9 | no | Order lifetime in seconds. If the parameter is not specified, its default value specified in the settings of the merchant or the default lifetime (1200 seconds = 20 minutes) will be used .If a request contains the expirationDate parameter, the value of the sessionTimeoutSecs parameter is ignored. |
| expirationDate | ANS | no | Date and time of expiration of the Order lifetime. The format used: yyyy-MM-ddTHH:mm:ss.If this parameter is not passed in the request, the sessionTimeoutSecs parameter is used to define the expiration time of the Order. |
| bindingId | AN..255 | no | Identifier of the binding that has been created earlier. It can be used only if a store has a permission to work with bindings. If this parameter is passed in this request, it means the following:1. The given Order can be paid only with a binding;2. The payer will be redirected to the payment page on which only entering CVC is required. |
| [orderBundle](#scroll-bookmark-91) |  |  | Block containg the Cart of items of the Order. The description of the block attributes is given in the "orderBundle table" below. |
| taxSystem | N..2 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Taxation system. The following values are available:* **0** — general;
* **1** — simplified, with only revenue taken into account;
* **2** — simplified, the revenue minus the expenditure;
* **3** — uniform tax on imputed income;
* **4** — unified agricultural tax;
* **5** — patent taxation system.
 |

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

* + orderNumber — Order number in the store system
	+ description — Order description (the maximum length is 99 symbols, it is prohibited to use %, +, end of line \r and line break \n).

If an additional parameter, merchantOrderId, is passed in the request, the value of this parameter will be sent to the Bank processing system as the Order number (instead of the value of the orderNumber field).

**orderBundle** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderCreationDate | ANS..21 | no | Order creation date in the format YYYY-MM-DDTHH:MM:SS |
| [customerDetails](#scroll-bookmark-92) |  | no | Block containing attributes with data on a customer. The description of the tag attributes is given below. |
| [cartItems](#scroll-bookmark-93) |  | yes | Block with the attributes of the items in the Cart. The description of the tag attributes is given below. |

**customerDetails** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| email | ANS..40 | no | Customer's email address. You can specify several email addresses using commas without spaces as delimiters - in this case the receipt will be sent to all specified email addresses.It is mandatory to pass one of the two parameters: email или phone. |
| phone | N.12 | no | Customer's phone number.It is mandatory to pass one of the two parameters: email или phone. |
| contact | ANS..40 | no | Customer's preferred way of communication. |
| [deliveryInfo](#scroll-bookmark-94) |  | no | Block containing the attributes of the delivery address. The description of the tag attributes is given below. |

 **deliveryInfo** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| deliveryType | ANS..20 | no | Delivery type |
| country | A..2 | yes | Country of destination |
| city | ANS..40 | yes | City of destination |
| postAddress | ANS..255 | yes | Address of destination |

**cartItems** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-95) |  | yes | Array of blocks describing items in the Cart. The description of the block parameters is given below.Information on every item in the Cart is passed in a separate block that is included in items. |

Parameters of a block that is included in **items**:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | N..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-96) |  | no | Additional block containing the parameters describing an item. The description of the tag attributes is given below. |
| [quantity](#scroll-bookmark-97) |  | yes | Element describing the total of items of one positionId and its unit of measurement. The description of the tag attributes is given below.  |
| itemAmount | N..18 | yes | The total cost of all instances of one positionId specified in minor denomination of the currency |
| itemCurrency | N3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system. The parameter must be unique within a request. |
| [discount](#scroll-bookmark-98) |  | no | Additional block containing attributes of the description of a discount for an item. The description of the tag attributes is given below. |
| [agentInterest](#scroll-bookmark-99) |  | no | Additional block containing attributes of the description of an agent fee for the sale of goods. The description of the tag attributes is given below. |
| [tax](#scroll-bookmark-100) |  | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Additional block containing attributes for the description of a tax. |
| itemPrice | N..18 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Price of an item of a given positionId in minor denomination of the currency Mandatory for merchants using fiscalization |

**quantity** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | N..18 | yes | Quantity of the item instances of the given positionId. . Use a decimal point as a separator in fractions. |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances |

 **itemDetails** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-101) |  | no | Additional information on an item. The parameter represents an array of blocks each of which contains information on a certain characteristic of the item. |

Parameters of a block that is included in **itemDetailsParams**:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | ANS..255 | yes | Additional information on an item |
| name | ANS..255 | yes | Name of the parameter describing the details of an item |

**discount** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

 **tax block parameters:**

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.

Mandatory for merchants using fiscalization |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | ANS36 | no | Order number in the payment system. The number is unique within the system. The number is missing if registration of an Order has failed due to an error detailed in errorCode. |
| formUrl | AN..512 | no | URL of the payment form, to which a customer is to be redirected. The URL is not returned if registration of an Order has failed due to an error detailed in errorCode. |
| errorCode | N3 | no | Error code. Can be missing if the result has not caused an error. |
| errorMessage | AN..512 | no | Error description in the language passed in the language parameter of the request. |

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

|  |  |
| --- | --- |
| Value | Description |
| 1 | An order with this number has already been processed. |
| 1 | Incorrect order number. |
| 3 | Unknown currency. |
| 4 | Order number cannot be empty. |
| 4 | Merchant name cannot be empty. |
| 4 | The amount is missing. |
| 4 | Return URL cannot be empty. |
| 4 | Password cannot be empty. |
| 5 | A parameter value has been specified incorrectly. |
| 5 | Access is denied. |
| 5 | The user is inactive. |
| 7 | System error. |
| 8 | A mandatory parameter of theCart is missing . |
| 8 | The currency of the Cart does not match the currency of the Order. |
| 8 | The amount for items in the Cart does not match the total amount of the Order. |
| 8 | Incorrect format of the Cart. |
| 8 | It is prohibited to pass the additional parameter amount\_bonus if a request contains the Cart. |
| 8 | The value of the quantity parameter is too large or too small. |

**GET request example:**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/register.do?amount=24000&currency=643&language=ru&orderNumber=04f04a87d6f4а5rg3r3d21&password=password&returnUrl=https://web.rbsuat.com/ab/finish.html&userName=userName&jsonParams={"name1":"value1"}&sessionTimeoutSecs=5400&merchantLogin=merch\_child&taxSystem=0&orderBundle={ "orderCreationDate":"2013-07-12T13:51:00", "customerDetails":{ "email":"email@email.com", "phone":"79851231234", "contact": "Mega Tester","deliveryInfo":{ "deliveryType":"courier", "country":"RU", "city":"Moscow","postAddress":"Bld. 2, 50A/8 Zemlyanoy Val St." }}, "cartItems": { "items": [ { "positionId": "1","name": "Metzeler Enduro 3 Sahara", "itemDetails": { "itemDetailsParams":[{ "value": "Metzeler ", "name": "brand" }, { "value": "17inch", "name": "radius" }]},"quantity": { "value": 0.71, "measure": "units" }, "itemAmount": 8000, "itemCurrency": "643","itemCode": "NM-15", "discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": "agentPercent", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 11267},{ "positionId": "2", "name": "Universal Mirror Enduro", "itemDetails": { "itemDetailsParams":[{ "value": "Noname", "name": "brand" }, { "value": "12mm", "name": "diameter" }]},"quantity": { "value": 1.0, "measure": "units" }, "itemAmount": 8000, "itemCurrency": "643","itemCode": "NM-15", "discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 8000 },{ "positionId": "3", "name": "Warm Grips", "itemDetails": { "itemDetailsParams":[ { "value": "Noname", "name": "brand" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 8000, "itemCurrency": 643, "itemCode": "G-16","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 8000 }] } } |

**POST request example:**

|  |
| --- |
| amount=24000&currency=643&language=ru&orderNumber=04f04a87d6f4а5rg3r3d21&returnUrl=https://web.rbsuat.com/ab/finish.html&jsonParams={"name1":"value1"}&sessionTimeoutSecs=5400&merchantLogin=merch\_child&taxSystem=0&orderBundle={ "orderCreationDate":"2013-07-12T13:51:00", "customerDetails":{ "email":"email@email.com", "phone":"79851231234", "contact": "Mega Tester","deliveryInfo":{ "deliveryType":"courier", "country":"RU", "city":"Moscow","postAddress":"Bld. 2, 50A/8 Zemlyanoy Val St." }}, "cartItems": { "items": [ { "positionId": "1","name": "Metzeler Enduro 3 Sahara", "itemDetails": { "itemDetailsParams":[{ "value": "Metzeler ", "name": "brand" }, { "value": "17inch", "name": "radius" }]},"quantity": { "value": 0.71, "measure": "units" }, "itemAmount": 8000, "itemCurrency": "643","itemCode": "NM-15", "discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": "agentPercent", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 11267},{ "positionId": "2", "name": "Universal Mirror Enduro", "itemDetails": { "itemDetailsParams":[{ "value": "Noname", "name": "brand" }, { "value": "12mm", "name": "diameter" }]},"quantity": { "value": 1.0, "measure": "units" }, "itemAmount": 8000, "itemCurrency": "643","itemCode": "NM-15", "discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 8000 },{ "positionId": "3", "name": "Warm Grips", "itemDetails": { "itemDetailsParams":[ { "value": "Noname", "name": "brand" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 8000, "itemCurrency": 643, "itemCode": "G-16","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 8000 }] } } |

**Response example:**

|  |
| --- |
| {"formUrl":"https://web.rbsuat.com/ab/789/payment\_ru.html?mdOrder=ece47318-19f2-466a-93cd-bdb08c1587ec","orderId":"ece47318-19f2-466a-93cd-bdb08c1587ec"} |

### Request for cancellation of a payment for an Order

To cancell an Order, the reverse.do request is used. The payment cancellation functionality is available within a limited time period after processing a payment. The exact period duration should be found out from the Bank.

The payment cancellation operation can be executed only once. If the operation completes with an error, a repeated operation of the payment cancellation will be impossible.

This functionality can be available for stores upon agreement with the Bank. To be able to execute a cancellation operation, a user must have the corresponding permissions.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | ANS36 | yes | Order number in the payment system. The number is unique within the system. |
| language | A2 | no | Language in the ISO 639-1 encoding. An error message will be returned in this language. If the parameter is missing or does not meet the format, the default language specified in the merchant settings is used. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | No | Error code. |
| errorMessage | AN..512 | No | Error description in the language that has been passed in the request or in the default language. |

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

Classification:

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Error in the value of the request parameter |
| 6 | Non-registered OrderId |
| 7 | System error |

Its meaning:

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | The [orderId] parameter is not set up |
| 6 | Incorrect order number |
| 7 | Invalid operation for the current state of the payment |
| 7 | Reversal is impossible. Reason: incorrect internal values, check the amount put on hold and deposit amount.  |
| 7 | System error |

**GET request example:**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/reverse.do?language=ru&orderId=9231a838-ac68-4a3e-bddb-d9781433d852&password=password&userName=userName |

**POST request example:**

language=ru&orderId=9231a838-ac68-4a3e-bddb-d9781433d852

**Response example:**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Successfully"} |

### The request for a full refund of the funds paid for the Order

The refund.do request is used for a full refund of the funds paid for the Order. On this request, the funds spent on the Order will be returned to the payer. The request will complete with an error if the funds have not been charged for this Order.

This operation in availble for the users who have the corresponding permissions in the system.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| amount | N..5 | yes | Refund amount in the Order currency (in minor denomination). The refund amount must be equal to the Order amount. |
| language | A2 | no | Language in the ISO 639-1 encoding. An error message will be returned in this language. |
| jsonParams | AN..1024 | no | Addtitional information fields for the subsequent storage of the type {"param":value,"param2":value 2}. These fields may be passed to the Bank processing system for the further displaying in registers.\* Enabling this functionality is possible upon agreement with the Bank during the integration period. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. |

Error codes (the errorCode field):

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | Order number is not specified |
| 5 | Incorrect amount |
| 6 | Incorrect order number |
| 7 | Payment must be in an appropriate state |
| 7 | Refund amount exceeds the charged amount |
| 7 | System error |
| 8 | Specified refund amount does not match the full amount of the Order. For a partial refund the presense of the Cart data is required |

**GET request example**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/refund.do?language=ru&orderId=c84105aa-0713-44e1-ae3b-4c5e09d49a7d&password=password&userName=login&jsonParams={"name1":"value1"}&amount=24000 |

**POST request example**

|  |
| --- |
| language=ru&orderId=c84105aa-0713-44e1-ae3b-4c5e09d49a7d&jsonParams={"name1":"value1"}&amount=24000 |

**Response example:**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Successfully"} |

### Request for a partial refund of an Order payment

To refund an Order therefund.do request is used.

This operation in availble for the users who have the corresponding permissions in the system.

|  |
| --- |
| For error-free processing of the request it is sufficient to pass the quantity and positionId parameters. |

The "[Requirements to forming requests for registration of an Order with a Cart](#scroll-bookmark-46)" section contains the list of conditions necessary to correclty form the request.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| amount | N..20 | yes | Refund amount in the Order currency (in minor denomination). The refund amount must match the total of amounts of all returned items. |
| [refundItems](#scroll-bookmark-102) |  |  | Cart containg the Order items. |
| language | A2 | no | Language in the ISO 639-1 encoding. An error message will be returned in this language |
| jsonParams | AN..1024 | no | Addtitional information fields for the subsequent storage of the type {"param":value,"param2":value 2}. These fields may be passed to the Bank processing system for the further displaying in registers.\* Enabling this functionality is possible upon agreement with the Bank during the integration period. |

**refundItems** parameter:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-103) |  | no | An element of the array containing attributes of an item in the Cart |

**items** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | N..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-104) |  | no | Additional block containing the parameters describing an item |
| [quantity](#scroll-bookmark-105) |  | yes | Element describing the total of items of one positionId and its unit of measurement |
| itemAmount | N..18 | yes | Refunded amount for the given positionId in minor denomination of the currency. This amount can be less than the amount of the payment for the given positionId. |
| itemCurrency | N3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system |
| [discount](#scroll-bookmark-106) |  | no | Additional block containing attributes of the description of a discount for an item |
| [agentInterest](#scroll-bookmark-107) |  | no | Additional block containing attributes of the description of an agent fee for the sale of goods |
| [tax](#scroll-bookmark-108) |  | no | Additional block containing attributes for the description of a tax. This block can be passed if for a store the fiscalization settings are specified, but the block is not mandatory (values of the parameters from this block will not be checked). |
| itemPrice | N..18 | no | Price of an item of a given positionId in minor denomination of the currency. This block can be passed if for a store the fiscalization settings are specified, but it is not mandatory (values of the parameters from this block will not be checked). |

**quantity** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | N..18 | yes | Quantity of items in one positionId |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances |

 **itemDetails** block parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-109) |  | no | An array of blocks each of which contains information on a certain characteristic of the item. |

Parameters of a block that is included in **itemDetailsParams**:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | ANS..255 | yes | Additional information on an item |
| name | ANS..255 | yes | Name of the parameter describing the details of an item |

**discount** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

 **tax block parameters:**

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.
 |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. The available values and their descriptions are given in the table below. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the language parameter or in the default language. |

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

Classification:

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Error in the value of the request parameter |
| 5 | Incorrect format of the refungItems parameter |
| 6 | Non-registered OrderId |
| 7 | System error |

Its meaning:

|  |  |
| --- | --- |
| Value | Description |
| 5 | Authorization has been declined |
| 5 | Access is denied |
| 6 | Incorrect order number |
| 7 | Payment must be in an appropriate state |
| 7 | Incorrect deposit amount (less than 1 rouble) |
| 7 | System error |
| 8 | Incorrect format of the refungItems parameter |
| 8 | A mandatory parameter of the Cart is missing |
| 8 | The currency of the Cart does not match the currency of the Order. |
| 8 | The amount for items in the Cart does not match the total amount of the Order |
| 8 | The value of the quantity parameter is too large or too small |
| 8 | The original Order does not contain items with the given number |

**GET request example**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/refund.do?language=ru&orderId=830603cd-a886-483a-9a23-c37fb8018096&password=password&userName=login&jsonParams={"name1":"value1"}&amount=9000&refundItems={"items": [ { "positionId": "2", "name": "Universal Mirror Enduro", "itemDetails":{ "itemDetailsParams": [{"value": "Noname", "name": "brand"}, {"value": "12mm", "name": "diameter" }]},"quantity": { "value": 1.0, "measure": "units" },"itemAmount": 6000, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 6000},{ "positionId": "3", "name": "Warm Grips", "itemDetails": { "itemDetailsParams":[ { "value": "Noname", "name": "brand" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 3000, "itemCurrency": 643, "itemCode": "G-16","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 3000}] } |

**POST request example**

|  |
| --- |
| language=ru&orderId=830603cd-a886-483a-9a23-c37fb8018096&jsonParams={"name1":"value1"}&amount=9000&refundItems={"items": [ { "positionId": "2", "name": "Universal Mirror Enduro", "itemDetails":{ "itemDetailsParams": [{"value": "Noname", "name": "brand"}, {"value": "12mm", "name": "diameter" }]},"quantity": { "value": 1.0, "measure": "units" },"itemAmount": 6000, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 6000},{ "positionId": "3", "name": "Warm Grips", "itemDetails": { "itemDetailsParams":[ { "value": "Noname", "name": "brand" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 3000, "itemCurrency": 643, "itemCode": "G-16","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 3000}] } |

**Response example**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Successfully"} |

### Request for the details on a receipt

To get the information on receipts for the Order, the getReceiptStatus.do request is used. The following data can be passed in the request:

* Order identifier — orderId or orderNumber;
* Receipt identifier — uuid.

If the Order identifier is passed (orderId or orderNumber), the response returns all the receipts of this Order. On passing only the receipt identifier, the response returns only the data on this receipt. If both the Order and receipt identifiers are passed, the response returns all the receipts of the Order.

**Request parameters**

Name

|  |  |  |  |
| --- | --- | --- | --- |
|  | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection. |
| password | AN..30 | yes | The store password that has been received on connection. |
| orderId | ANS36 | no | Order number in the payment system. The number is unique within the system. To execute the request, the Order number or its identifier in the fiscalizator must be specified. |
| orderNumber | AN..32 | no | Number (identifier) of the Order in the store system To execute the request, the Order number or the identifier in the fiscalizator must be specified. |
| uuid | ANS..32 | no | Receipt identifier in the fiscalizator. To execute the request, the Order number or the identifier in the fiscalizator must be specified. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |

**Response parameters**

|  |
| --- |
| Some parameters to be returned may depend on the Operator of Fiscal Data used. |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | no | Error code |
| errorMessage | AN..512 | no | Error description in the language passed in the language parameter of the request. |
| orderNumber | AN..32 | no | Number (identifier) of the Order in the store system |
| orderId | ANS36 | no | Order number in the payment system. The number is unique within the system |
| [receipt](#scroll-bookmark-110) |  | no | Block containing the receipt parameters |

**Receipt** block attributes are present in the table below.

**Name**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Type | Mandatory | Description |
| receiptStatus | N2 | yes | The status of the receipt is defined by the value of this parameter. The field can have the following values:* 0 — The payment is submitted
* 1 — The payment is delivered;
* 2 — A payment error;
* 3 — A refund is submitted;
* 4 — The refund is delivered;
* 5 — A delivery error.
 |
| uuid | ANS..32 | no | Receipt identifier in the fiscalizator. |
| shift\_number | N | no | Shift number. |
| receipt\_number | N | no | Receipt number in the shift. |
| receipt\_datetime | S | no | Date and time of the receipt in the fiscal accumulating mechanism. Shown as the amount of milliseconds passed from 00:00 January 1, 1970. |
| fn\_number | S..16 | no | Fiscal accumulating mechanism number. |
| ecr\_registration\_number | S..20 | no | Cash register device number. |
| device\_number | S..20 | no | Cash register device number. |
| fiscal\_document\_number | N | no | Fiscal number of the document. |
| fiscal\_document\_attribute | S..10 | no | Fiscal attribute of the document. |
| amount\_total | NS..11 | no | Receipt total amount in roubles. |
| serial\_number | S..20 | no | Cash register device manufacturing number. |
| [OFD (Operator of Fiscal Data)](#scroll-bookmark-111) |  | no | Block containing parameters of the fiscalization data operator . |

The attributes of the **OFD** block are present in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | S..256 | no | Name of fiscalization data operator. |
| website | S..58 | no | Site of fiscalization data operator. |
| INN | S12 | no | Taxpayer identification number of the fiscalization data operator. |

**Error code**

Error codes and messages are present in the table below.

|  |  |
| --- | --- |
| Error code | Message |
| 1 | At least one of these parameters is required: orderId, orderNumber, or uuid. |
| 5 | Access is denied. |
| 6 | Receipt is not found. |
| 7 | System error. |

**Request example**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/getReceiptStatus.do?userName=login-api&password=password&orderId=abd60d0c-e096-42c3-8b17-6081c67db214 |

**Response example**

|  |
| --- |
| {"errorCode":"0","orderNumber":"220170606034051002\_177","orderId":"abd60d0c-e096-42c3-8b17-6081c67db214","receipt":[{"receiptStatus":1,"uuid":"790925e5-739c-430c-9e92-79d9f14481a4","shift\_number":"27","fiscal\_receipt\_number":"21","receipt\_date\_time":1499256900000,"fn\_number":"9999078900006364","ecr\_registration\_number":"1234567890023481","fiscal\_document\_number":"21","fiscal\_document\_attribute":"3713381819","amount\_total":10000}]} |

### An extended request for the Order status

To get the status of a registered Order, the getOrderStatusExtended.do request is used.

**Request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | ANS36 | yes\* | Order number in the payment system. The number is unique within the system. |
| orderNumber | AN..32 | yes\* | Number (identifier) of the Order in the store system |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |

\*The request must contain either orderId or orderNumber. If both parameters are passed in the request, the priority of orderId is higher.

There are several sets of response parameters. It depends on the version of getOrderStatusExtended specified in the settings of the merchant what sets in particular are to be returned.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| orderNumber | AN..32 | yes | Number (identifier) of the Order in the store system | All versions. |
| orderStatus | N2 | no | The status of the Order in the payment system is defined by the value of this parameter. The list of available values is given below. The parameter value is missing if the Order has not been found.* **0** — The Order has been registered, but not paid;
* **1** — A pre-authorized amount is put on hold (for two-phase payments);
* **2** — A full authorization of the Order amount has been executed;
* **3** — Authorizartion is cancelled;
* **4** — A refund operation has been executed for the transaction;
* **5** — Authorization has been initiated though the ACS of the issuing Bank;
* **6** — Authorization has been declined.
 | All versions. |
| actionCode | N3 | yes | Response code. | All versions. |
| actionCodeDescription | AN..512 | yes | Explanation of the response code in the language passed in the request in the Language parameter. | All versions. |
| errorCode | N3 | no | Error code. The following values are available.* **0** — The request has been processed without system errors;
* **1** — [orderId] or [orderNumber] is pending;
* **5** — Access is denied;
* **5** — The user must change their password;
* **6** — The Order is not found;
* **7** — A system error.
 | All versions. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. | All versions. |
| amount | N..20 | yes | Payment amount in kopeks (or cents) | All versions. |
| currency | N3 | no | ISO 4217 code of the payment currency. If the current code is not specified, it is considered to be equal to 810 (Russian roubles). | All versions. |
| date | ANS | yes | Order registration date. | All versions. |
| orderDescription | AN..512 | no | Order description passed on its registration | All versions. |
| ip | AN..20 | yes | IP-address of the customer. | All versions. |
| merchantOrderParams *element — is present in the response if the Order request contains additional parameters of the merchant. Every additional parameter of the Order is present in a separate element* merchantOrderParams*.* |
| name | AN..20 | no | Name of an additional parameter | All versions. |
| value | AN..1024 | no | Value of the additional parameter | All versions. |
| *The* cardAuthInfo *element contains a structure consisting of a list of the* secureAuthInfo *element and the following parameters:* |
| maskedPan | N..19 | no | Masked number of the card that was used for the payment. The masked number is specified only when the Order is paid. | All versions. |
| expiration | N6 | no | Card expiry date in the format YYYYMM. The masked number is specified only when the Order is paid. | All versions. |
| cardholderName | A..64 | no | Name of the holder of the card. The masked number is specified only when the Order is paid. | All versions. |
| approvalCode | AN6 | no | Authorization code for the payment. The field of a fixed length (6 symbols), it can contain numbers and Latin letters. This parameter is to be specified only after the Order is paid. | All versions. |
| chargeback | A..5 | no | Parameter defining whether the funds were forcibly retuned to the customer by the Bank. The available values are:* **true** (true);
* **false** (false).
 | 06 and higher. |
| paymentSystem | N..10 | yes | Name of the payment system. The available values are.* **VISA**;
* **MASTERCARD**;
* **AMEX**;
* **JCB**;
* **CUP**;
* **MIR**.
 | 08 and higher. |
| product | AN..255 | yes | Additional data on corporate cadrs. This data is specified by the support service in the administration console. If this data is missing, an empty value is returned. | 08 and higher. |
| paymentWay | AS..14 | yes | Method of performing the payment (a payment with entering card data, a binding payment, and so on) . | 09 and higher. |
| *The* secureAuthInfo *element (this element consists of the* eci *and* threeDSInfo *elements that are the lists of the parameters* cavv *and* xid*):* |
| eci | N..4 | no | Electronic Commerce Indicator. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| cavv | ANS..200 | no | Value for the cardholder authentication check. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| xid | ANS..80 | no | Electronic Commerce Indicator of the transaction. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| *The* bindingInfo *consists of the parameters:* |
| clientId | ANS..255 | no | Number (identifier) of the customer in the store system passed on the Order registration. The parameter can be present in the request if creating bindings is enabled for the store. | All versions. |
| bindingId | AN..255 | no | Identifier of the binding that has been created on the payment for the Order or that has been used for the payment. The parameter can be present in the request if creating bindings is enabled for the store. | All versions. |
| authDateTime | ANS | no | Date and time of the authorization. | 02 and higher. |
| authRefNum | AN..24 | no | Registration number of the payment authorization that has been assigned to it on the payment registration. | 02 and higher. |
| terminalId | AN..10 | no | Terminal ID. | 02 and higher. |
| *The* paymentAmountInfo *element consists of the following parameters:* |
| approvedAmount | N..20 | no | Amount that has been put on hold on the card (it is used only for two-phased payments). | 03 and higher. |
| depositedAmount | N..20 | no | Amount confirmed for debiting from the card. | 03 and higher. |
| refundedAmount | N..20 | no | Refund amount. | 03 and higher. |
| paymentState | A..10 | no | Order status. | 03 and higher. |
| feeAmount | N..20 | no | Fee amount. | 11 and higher. |
| *The* bankInfo *element consists of the parameters:* |
| bankName | AN..200 | no | The issuing Bank name. | 03 and higher. |
| bankCountryCode | AN..4 | no | Country code of the issuing Bank. | 03 and higher. |
| bankCountryName | AN..160 | no | The name of the country of the issuing Bank specified in the language passed in the request as the language parameter or specified in the language of the user who has called the method if in the request the language is not specified. | 03 and higher. |
| [orderBundle](#scroll-bookmark-63) | See the description | no | Block containg the Cart of items of the Order. The description of the tag attributes is given below. | 03 and higher. |

**Contents of orderBundle**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| [customerDetails](#scroll-bookmark-112) | See the description | no | Customer data block. See the description below. | 03 and higher. |
| [cartItems](#scroll-bookmark-64) | See the description | no | Block with the attributes of the items in the Cart. The description of the tag attributes is given below. | 03 and higher. |

**Contents of customerDetails**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| email | ANS..40 | no | Customer's email address. | 03 and higher. |
| phone | N.12 | no | Customer's phone number. | 03 and higher. |

**Contents of cartItems**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| [items](#scroll-bookmark-65) | See the description | no | Array of blocks describing items in the Cart. The description of the block parameters is given below.Information of every item in the Cart is passed in a separate block that is included in items. | 03 and higher. |

**Contents of items**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| positionId | N..12 | no | Unique identifier of an item within the Order Cart. | 03 and higher. |
| name | ANS..100 | no | Name or the description of an item in any format. | 03 and higher. |
| [quantity](#scroll-bookmark-113) | See the description | no | Element describing the total of items of one positionId and its unit of measurement. The description of the tag attributes is given below. | 03 and higher. |
| itemAmount | N..18 | no | The total cost of all instances of one positionId specified in minor denomination of the currency. | 03 and higher. |
| depositedItemAmount | N..18 | no | Amount in minor denomination (for example, in kopeks) of one positionId confirmed when debiting funds from the card. | 03 and higher. |
| itemCurrency | N3 | no | Currency code of an item according to ISO 4217. | 03 and higher. |
| itemCode | ANS..100 | no | Number (identifier) of an item in the store system. The parameter must be unique within a request. | 03 and higher. |

**Contents of quantity**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| value | N..18 | no | Quantity of the item instances of the given positionId. . Use a decimal point as a separator in fractions. | 03 and higher. |
| measure | ANS..20 | no | The unit of measurement for the quantity of item instances. | 03 and higher. |

**GET request example:**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/getOrderStatusExtended.do?userName=userName&password=password&orderId=b9054496-c65a-4975-9418-1051d101f1b9&language=ru&merchantOrderNumber=0784sse49d0s134567890 |

**POST request example:**

|  |
| --- |
| orderId=b9054496-c65a-4975-9418-1051d101f1b9&language=ru&merchantOrderNumber=0784sse49d0s134567890 |

**Response example:**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Успешно","orderNumber":"220170606034051002\_28","orderStatus":2,"actionCode":0,"actionCodeDescription":"","amount":52500,"currency":"643","date":1499343399327,"depositedDate":1499343424170,"orderDescription":"","ip":"127.0.0.1","merchantOrderParams":[],"attributes":[{"name":"mdOrder","value":"467db186-3aaf-4ba1-a66d-403bdde6c86f"}],"cardAuthInfo":{"expiration":"202012","cardholderName":"test","approvalCode":"123456","paymentSystem":"VISA","pan":"411111\*\*1111"},"authDateTime":1499343423166,"terminalId":"123456","authRefNum":"111111111111","paymentAmountInfo":{"paymentState":"DEPOSITED","approvedAmount":52500,"depositedAmount":52500,"refundedAmount":0,"feeAmount":0},"bankInfo":{"bankName":"test","bankCountryCode":"RU","bankCountryName":"Россия"},"orderBundle":{"customerDetails":{"email":"test@test.ru","phone":"79998887766"},"cartItems":{"items":[{"positionId":"1","name":"name","quantity":{"value":1.0,"measure":"me"},"itemAmount":52500,"depositedItemAmount":52500,"itemCurrency":643,"itemCode":"1246754788"}]}},"chargeback":false,"paymentWay":"CARD"} |

Requests used on a two-phase payment

### Request for registration of an Order with the use of pre-authorization

To register an order with pre-authorization, the registerPreAuth.do is used (see the "[Connection URLs](#scroll-bookmark-90)" section).

The Cart with items is passed in the <t0/>orderBundle<t1/> parameter.

The section "[Requirements to forming requests for registration of an Order with a Cart](#scroll-bookmark-44)" contains a list of conditions that are necessary to correctly form a request.

|  |
| --- |
| If the data on the Cart and the fiscalization data are not passed in the request, the default values specified in the personal area are passed to the Operator of Fiscal Data, OFD (see the instruction on working with the personal area). |

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderNumber | AN..32 | yes | Number (identifier) of the Order in the store system |
| amount | N..20 | yes | Payment amount in the minor denomination of the currency. The amount must coincide with the total amount to be charged for all items in the Cart. |
| currency | N3 | no | ISO 4217 currency code of the payment. If the code is not specified, it is considered to be equal to the default currency code. |
| returnUrl | AN..512 | yes | Address to which a user is to be redirected in case of a successful 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 an address of the following type: **http://<payment\_gateway\_address>/<merchant\_address>**. |
| failUrl | AN..512 | no | Address to which a user is to be redirected in case of an unsuccessful 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 an address of the following type: **http://<payment\_gateway\_address>/<merchant\_address>**. |
| description | ANS..512 | no | Description of the Order in any format. Only first 24 symbols of this field are passed to the Bank processing system to be included into financial reports.

|  |
| --- |
| To enable sending this field to the processing system, contact the technical support service. |

 |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, the default language from the Store settings is to be used. |
| pageView | ANS..20 | no | Value of this parameter defines what pages of the payment interface are to be loaded for the customer. The available values are:* DESKTOP — to load pages the layout of which is designed for displaying on monitors of PCs (a search for pages with names payment\_<locale>.html and errors\_<locale>.html will be carried out in the archive of payment interface pages);
* MOBILE — to load pages the layout of which is designed for displaying on screens of mobile devices (a search for pages with names mobile\_payment\_<locale>.html and mobile\_errors\_<locale>.html will be carried out in the archive of payment interface pages);
* If a store has created its own pages of the payment interface by having added arbitrary prefixes to the names of page files, a value of the necessary prefix is to be passed in the pageView parameter to load the corresponing page. For example, on passing the value iphone a search will be carried out for pages with names iphone\_payment\_<locale>.html and iphone\_error\_<locale>.html in the archive of payment interface pages.

Where:locale is the language of the page in the ISO 639-1 encoding. For example, ru for Russian or en for English.If the parameter is missing or does not meet the format, by default it is considered that pageView=DESKTOP. |
| clientId | ANS..255 | no | Number (identifier) of the customer in the store system. This parameter is used to implement the bindings functionality. The parameter can be present in the request if creating bindings is enabled for the store. |
| merchantLogin | AN..255 | no | To register an Order on behalf of a child merchant, specify the merchant login in this parameter. |
| jsonParams | AN..1024 | no | Block for passing additional parameters of the merchant. Addtitional information fields for the subsequent storage are to be passed in the following way:{"<name1>":"<value1>",...,"<nameN>":"<valueN>"},These fields may be passed to the Bank processing system for the further displaying in registers.\*Enabling this functionality is possible upon agreement with the Bank during the integration period.If for a merchant sending notifications to a customer is set up, the customer's email address must be passed in this block in email parameter.  Additional parameter branch allows to pass a number or identifier of a branch connected to a certain cash register equipment group. This parameter is used for a phased introduction of fiscalization in large organizations. To allow this parameter to be processed contact our technical support.Below is an example of how to use this parameter.{"branch":"339"}In this example branch number/identifier 339 is passed to the Payment Gateway. |
| sessionTimeoutSecs | N...9 | no | Order lifetime in seconds. If the parameter is not specified, its default value specified in the settings of the merchant or the default lifetime (1200 seconds = 20 minutes) will be used . If a request contains the expirationDate parameter, the value of the sessionTimeoutSecs parameter is ignored. |
| expirationDate | ANS | no | Date and time of expiration of the Order lifetime. The format used: yyyy-MM-ddTHH:mm:ss.If this parameter is not passed in the request, the sessionTimeoutSecs parameter is used to define the expiration time of the Order. |
| bindingId | AN..255 | no | Identifier of the binding that has been created earlier. It can be used only if a store has a permission to work with bindings. If this parameter is passed in this request, it means the following:1. The given Order can be paid only with a binding;2. The payer will be redirected to the payment page on which only entering CVC is required. |
| [orderBundle](#scroll-bookmark-114) |  |  | Cart containing the Order items |
| taxSystem | N..2 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Taxation system. The following values are available:* **0** — general;
* **1** — simplified, only revenue is taken into account;
* **2** — simplified, revenue minus the expenditure;
* **3** — uniform tax on imputed income;
* **4** — unified agricultural tax;
* **5** — patent taxation system.
 |

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

* + - orderNumber — Order number in the store system
		- description — Order description (the maximum length is 99 symbols, it is prohibited to use %, +, end of line \r and line break \n).

If an additional parameter, merchantOrderId, is passed in the request, the value of this parameter will be sent to the Bank processing system as the Order number (instead of the value of the orderNumber field).

**orderBundle** parameter:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderCreationDate | ANS..21 | no | Order creation date in the format YYYY-MM-DDTHH:MM:SS |
| [customerDetails](#scroll-bookmark-115) |  | no | Block containing attributes with data on a customer |
| [cartItems](#scroll-bookmark-116) |  | yes | Block with the attributes of the items in the Cart |

**customerDetails** block parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| email | ANS..40 | No | Customer's email address. You can specify several email addresses using commas without spaces as delimiters - in this case the receipt will be sent to all specified email addresses.It is mandatory to pass one of the two parameters: email или phone. |
| phone | N.12 | No | Customer's phone number.It is mandatory to pass one of the two parameters: email или phone. |
| contact | ANS..40 | No | Customer's preferred way of communication. |
| [deliveryInfo](#scroll-bookmark-117) |  | No | Block containing the attributes of the delivery address. |

 **deliveryInfo** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| deliveryType | ANS..20 | no | Delivery type |
| country | A..2 | yes | Country of destination |
| city | ANS..40 | yes | City of destination |
| postAddress | ANS..255 | yes | Address of destination |

**cartItems** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-118) |  | yes | An element of the array containing attributes of an item in the Cart |

**items** element attributes:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | N..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-119) |  | no | Additional block containing the parameters describing an item |
| [quantity](#scroll-bookmark-120) |  | yes | Element describing the total of items of one positionId and its unit of measurement.  |
| itemAmount | N..18 | yes | The total cost of all instances of one <t0/>positionId<t1/> specified in minor denomination of the currency |
| itemCurrency | N3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system |
| [discount](#scroll-bookmark-121) |  | no | Additional block containing attributes of the description of a discount for an item |
| [agentInterest](#scroll-bookmark-122) |  | no | Additional block containing attributes of the description of an agent fee for the sale of goods |
| [tax](#scroll-bookmark-123) |  | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Additional block containing attributes for the description of a tax. |
| itemPrice | N..18 | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Price of an item of a given positionId in minor denomination of the currency. Mandatory for merchants using fiscalization |

**quantity** element attributes:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | N..18 | yes | Quantity of the item instances of the given positionId. Use a decimal point as a separator in fractions. |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances |

 **itemDetails** block parameters:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-124) |  | no | Parameter that contains additional information on an item |

**itemDetailsParams** parameter attributes:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | ANS..255 | yes | Additional information on an item |
| name | ANS..255 | yes | Name of the parameter describing the details of an item |

**discount** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

 **tax block parameters:**

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.

Mandatory for merchants using fiscalization |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| orderId | ANS36 | no | Order number in the payment system. The number is unique within the system. The number is missing if registration of an Order has failed due to an error detailed in errorCode. |
| formUrl | AN..512 | no | URL of the payment form, to which a customer is to be redirected. The URL is not returned if registration of an Order has failed due to an error detailed in errorCode. |
| errorCode | N3 | no | Error code. Can be missing if the result has not caused an error. |
| errorMessage | AN..512 | no | Error description in the language passed in the language parameter of the request. |

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

|  |  |
| --- | --- |
| Value | Description |
| 1 | An order with this number has already been processed |
| 3 | Unknown currency |
| 4 | Order number cannot be empty |
| 4 | Merchant name cannot be empty. |
| 4 | The amount is missing |
| 4 | Return URL cannot be empty |
| 4 | Password cannot be empty. |
| 5 | A parameter value has been specified incorrectly |
| 5 | Access is denied |
| 5 | The user is inactive. |
| 7 | System error |
| 8 | A mandatory parameter of theCart is missing . |
| 8 | The currency of the Cart does not match the currency of the Order. |
| 8 | The amount for items in the Cart does not match the total amount of the Order |
| 8 | Incorrect format of the Cart. |
| 8 | The value of the quantity parameter is too large or too small |

**GET request example:**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/registerPreAuth.do?amount=24000&currency=643&language=ru&orderNumber=01a287222222299&password=password&userName=userName&returnUrl=https://web.rbsuat.com/ab/finish.html&jsonParams={"name1":"value1"}&merchantLogin=merch\_child&taxSystem=0&orderBundle={ "orderCreationDate":"2013-07-12T13:51:00","customerDetails":{ "email":"email@email.com", "phone": "79851231234","contact": "Mega Tester", "deliveryInfo":{ "deliveryType":"courier", "country":"RU", "city":"Moscow","postAddress":"Bld. 2, 50A/8 Zemlyanoy Val St." }},"cartItems": { "items": [ { "positionId": "1", "name": "Metzeler Enduro 3 Sahara","itemDetails": { "itemDetailsParams": [{ "value": "Metzeler ", "name": "brand" },{ "value": "17inch", "name": "radius" }]}, "quantity": { "value": 0.71, "measure": "units" },"itemAmount": 8000, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": "agentPercent", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 11267},{ "positionId": "2", "name": "Universal Mirror Enduro","itemDetails": { "itemDetailsParams": [{ "value": "Noname", "name": "brand" },{ "value": "12mm", "name": "diameter" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 8000, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 8000 },{ "positionId": "3", "name": "Warm Grips","itemDetails": { "itemDetailsParams": [ { "value": "Noname", "name": "brand" }]},"quantity": { "value": 1.0, "measure": "units" }, "itemAmount": 8000, "itemCurrency": 643,"itemCode": "G-16", "discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 8000 }] } } |

**POST request example:**

|  |
| --- |
| amount=24000&currency=643&language=ru&orderNumber=01a287222222299&returnUrl=https://web.rbsuat.com/ab/finish.html&jsonParams={"name1":"value1"}&merchantLogin=merch\_child&taxSystem=0&orderBundle={ "orderCreationDate":"2013-07-12T13:51:00","customerDetails":{ "email":"email@email.com", "phone": "79851231234","contact": "Mega Tester", "deliveryInfo":{ "deliveryType":"courier", "country":"RU", "city":"Moscow","postAddress":"Bld. 2, 50A/8 Zemlyanoy Val St." }},"cartItems": { "items": [ { "positionId": "1", "name": "Metzeler Enduro 3 Sahara","itemDetails": { "itemDetailsParams": [{ "value": "Metzeler ", "name": "brand" },{ "value": "17inch", "name": "radius" }]}, "quantity": { "value": 0.71, "measure": "units" },"itemAmount": 8000, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": "agentPercent", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 11267},{ "positionId": "2", "name": "Universal Mirror Enduro","itemDetails": { "itemDetailsParams": [{ "value": "Noname", "name": "brand" },{ "value": "12mm", "name": "diameter" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 8000, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 8000 },{ "positionId": "3", "name": "Warm Grips","itemDetails": { "itemDetailsParams": [ { "value": "Noname", "name": "brand" }]},"quantity": { "value": 1.0, "measure": "units" }, "itemAmount": 8000, "itemCurrency": 643,"itemCode": "G-16", "discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 8000 }] } } |

**Response example:**

|  |
| --- |
| {"formUrl":"https://web.rbsuat.com/ab/merchants/789/payment\_ru.html?mdOrder=fc122907-e237-440e-9f25-48bf6120984b","orderId":"fc122907-e237-440e-9f25-48bf6120984b"} |

### Request for operation completion with the full pre-authorization amount

The deposit.do request is is used to charge the full pre-authorization amount..

This operation in availble for the users who have the corresponding permissions in the system.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| amount | N..5 | yes | To complete the operation with the full pre-authorization amount, it is necessary to send the full amount of the Order or 0. |
| language | A2 | no | Language in the ISO 639-1 encoding. An error message will be returned in this language. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. The available values are given in the table below. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | The deposit amount exceeds the amount that has been put on hold |
| 5 | The deposit amount must be greater than zero or not less than 1 rouble. |
| 5 | Access is denied |
| 5 | The user must change their password |
| 6 | Incorrect order number |
| 6 | The [orderId] parameter is not set up |
| 7 | Payment must be in an appropriate state |
| 7 | System error |
| 8 | Specified completion amount does not match the full amount of the Order. The Cart data is mandatory to complete the operation with a partial pre-authorization amount |

**GET request example**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/deposit.do?language=ru&orderId=f57db9df-5885-483d-8d5e-8e592d60ec9d&password=password&userName=login&amount=0 |

**POST request example**

|  |
| --- |
| currency=643&language=ru&orderId=f57db9df-5885-483d-8d5e-8e592d60ec9d&amount=0 |

**Response example**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Successfully"} |

### Request for the operation completion with a partial pre-authorization amount

The deposit.do request is used to charge the partial pre-authorization amount..

This operation in availble for the users who have the corresponding permissions in the system.

The section "[Requirements to forming requests for completion of an Order with a Cart](#scroll-bookmark-45)" contains the list of conditions necessary to correclty form the request.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| amount | N..5 | yes | The amount to be charged in the currency of the Order (in minor denomination). The amount must coincide with the total amount to be charged for all items in the Cart for the completion operation.  |
| language | A2 | no | Language in the ISO 639-1 encoding. An error message will be returned in this language. |
| [depositItems](#scroll-bookmark-125) |  | yes | Tag with the attributes of the items in the Cart |

**depositItems** block parameters

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-126) |  | yes | An element of the array containing attributes of an item in the Cart |

**items** element attributes:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | ANS..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-127) |  | no | Additional tag containing the parameters describing an item |
| [quantity](#scroll-bookmark-128) |  | yes | Block of parameters describing the total of items of one positionId and its unit of measurement. |
| itemAmount | N..18 | yes | The operation completion amount for the given positionId in minor denomination. |
| itemCurrency | N..3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system |
| [discount](#scroll-bookmark-129) |  | no | Additional tag containing attributes for the description of a discount on the item |
| [agentInterest](#scroll-bookmark-130) |  | no | Additional tag containing attributes of the description of an agent fee for the sale of goods |
| [tax](#scroll-bookmark-131) |  | yes — for fiscalization (for stores without fiscalization settings this parameter is optional) | Additional block containing attributes for the description of a tax. |
| itemPrice | N..18 | да - for fiscalization (for stores without fiscalization settings this parameter is optional) | Price of an item of a given positionId in minor denomination of the currency. Mandatory for merchants using fiscalization |

**quantity** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | N..18 | yes | Quantity of items in one positionId Use a decimal point as a separator in fractions. |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances |

**itemDetails** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-132) | ANS..255 | no | An array of blocks each of which contains information on a certain characteristic of the item. |

Parameters of a block that is included in **itemDetailsParams**:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | AN..255 | yes | Name of the parameter describing the details of an item |

**discount** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

 **tax block parameters:**

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.

Mandatory for merchants using fiscalization |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. Is missing if errorCode=0. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | The deposit amount must be greater than zero or not less than 1 rouble. |
| 5 | Access is denied |
| 5 | The user must change their password |
| 6 | Incorrect order number |
| 6 | The [orderId] parameter is not set up |
| 7 | Payment must be in an appropriate state |
| 7 | System error |
| 8 | A mandatory parameter of the Cart is missing |
| 8 | The deposit amount exceeds the amount on Order registration |
| 8 | The currency of the Cart does not match the currency of the Order. |
| 8 | The amount for items in the Cart does not match the total amount of the Order |
| 8 | The original Order does not contain items with the given number |
| 8 | The value of the quantity parameter is too large or too small |

**GET request example**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/deposit.do?userName=login&password=password&orderId=9659c922-f0fa-4b4f-9b09-8a754ad99c63&amount=4441&depositItems={"items": [{ "positionId": "2", "name": "Universal Mirror Enduro","itemDetails": { "itemDetailsParams": [{ "value": "Noname", "name": "brand" },{"value": "12mm", "name": "diameter" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 3330, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 3330},{ "positionId": "3", "name": "Warm Grips","itemDetails": { "itemDetailsParams": [ { "value": "Noname", "name": "brand" }]},"quantity": { "value": 1.0, "measure": "units" }, "itemAmount": 1111, "itemCurrency": 643,"itemCode": "G-16", "discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111},"itemPrice": 1111}] } |

**POST request example**

|  |
| --- |
| orderId=9659c922-f0fa-4b4f-9b09-8a754ad99c63&amount=4441&depositItems={"items": [{ "positionId": "2", "name": "Universal Mirror Enduro","itemDetails": { "itemDetailsParams": [{ "value": "Noname", "name": "brand" },{"value": "12mm", "name": "diameter" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 3330, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 3330},{ "positionId": "3", "name": "Warm Grips","itemDetails": { "itemDetailsParams": [ { "value": "Noname", "name": "brand" }]},"quantity": { "value": 1.0, "measure": "units" }, "itemAmount": 1111, "itemCurrency": 643,"itemCode": "G-16", "discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111},"itemPrice": 1111}] } |

**Response example**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Success"} |

### Request for cancellation of a payment for an Order

To cancell an Order, the reverse.do request is used. The payment cancellation functionality is available within a limited time period after processing a payment. The exact period duration should be found out from the Bank.

The payment cancellation operation can be executed only once. If the operation completes with an error, a repeated operation of the payment cancellation will be impossible.

This functionality can be available for stores upon agreement with the Bank. To be able to execute a cancellation operation, a user must have the corresponding permissions.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | ANS36 | yes | Order number in the payment system. The number is unique within the system. |
| language | A2 | no | Language in the ISO 639-1 encoding. An error message will be returned in this language. If the parameter is missing or does not meet the format, the default language specified in the merchant settings is used. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | No | Error code. |
| errorMessage | AN..512 | No | Error description in the language that has been passed in the request or in the default language. |

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

Classification:

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Error in the value of the request parameter |
| 6 | Non-registered OrderId |
| 7 | System error |

Its meaning:

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | The [orderId] parameter is not set up |
| 6 | Incorrect order number |
| 7 | Invalid operation for the current state of the payment |
| 7 | Reversal is impossible. Reason: incorrect internal values, check the amount put on hold and deposit amount.  |
| 7 | System error |

**GET request example:**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/reverse.do?language=ru&orderId=9231a838-ac68-4a3e-bddb-d9781433d852&password=password&userName=userName |

**POST request example:**

language=ru&orderId=9231a838-ac68-4a3e-bddb-d9781433d852

**Response example:**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Successfully"} |

### Request for a full refund of the funds paid for the Order

The refund.do request is used for a full refund of the funds paid for the Order. On this request, the funds spent on the Order will be returned to the payer. The request will complete with an error if the funds have not been charged for this Order.

This operation in availble for the users who have the corresponding permissions in the system.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| amount | N..5 | yes | Refund amount in the Order currency (in minor denomination). The refund amount must be equal to the Order amount. |
| language | A2 | no | Language in the ISO 639-1 encoding. An error message will be returned in this language. |
| jsonParams | AN..1024 | no | Addtitional information fields for the subsequent storage of the type {"param":value,"param2":value 2}. These fields may be passed to the Bank processing system for the further displaying in registers.\* Enabling this functionality is possible upon agreement with the Bank during the integration period. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. The available values and their descriptions are given in the table below. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. |

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

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Access is denied |
| 5 | The user must change their password |
| 5 | Order number is not specified |
| 5 | Incorrect amount |
| 6 | Incorrect order number |
| 7 | Payment must be in an appropriate state |
| 7 | Refund amount exceeds the charged amount |
| 7 | System error |
| 8 | Specified refund amount does not match the full amount of the Order. For a partial refund the presense of the Cart data is required |

**GET request example**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/refund.do?language=ru&orderId=c84105aa-0713-44e1-ae3b-4c5e09d49a7d&password=password&userName=login&jsonParams={"name1":"value1"}&amount=24000 |

**POST request example**

|  |
| --- |
| language=ru&orderId=c84105aa-0713-44e1-ae3b-4c5e09d49a7d&jsonParams={"name1":"value1"}&amount=24000 |

**Response example**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Successfully"} |

### Request for a partial refund of the funds spent to pay for the Order

For a partial refund of an Order therefund.do request is used.

This operation in availble for the users who have the corresponding permissions in the system.

|  |
| --- |
| For error-free processing of the request it is sufficient to pass the quantity and positionId parameters. |

The "[Requirements to forming requests for registration of an Order with a Cart](#scroll-bookmark-46)" section contains the list of conditions necessary to correclty form the request.

**Request parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | AN..64 | yes | Order number in the payment system. The number is unique within the system. |
| amount | N..20 | yes | Refund amount in the Order currency (in minor denomination). The refund amount must match the total of amounts of all returned items. |
| [refundItems](#scroll-bookmark-133) |  |  | Cart containg the Order items. |
| language | A2 | no | Language in the ISO 639-1 encoding. An error message will be returned in this language |
| jsonParams | AN..1024 | no | Addtitional information fields for the subsequent storage of the type {"param":value,"param2":value 2}. These fields may be passed to the Bank processing system for the further displaying in registers.\* Enabling this functionality is possible upon agreement with the Bank during the integration period. |

**refundItems** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [items](#scroll-bookmark-134) |  | no | Array of blocks describing items in the Cart. The description of the block parameters is given below.Information on every item in the Cart is passed in a separate block that is included in items. |

Parameters of a block that is included in **items**:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| positionId | N..12 | yes | Unique identifier of an item within the Cart of the Order |
| name | ANS..100 | yes | Name or the description of an item in any format |
| [itemDetails](#scroll-bookmark-135) |  | no | Additional block containing the parameters describing an item. The description of the tag attributes is given below. |
| [quantity](#scroll-bookmark-136) |  | yes | Element describing the total of items of one positionId and its unit of measurement. The description of the tag attributes is given below.  |
| itemAmount | N..18 | yes | Refunded amount for the given positionId in minor denomination of the currency. This amount can be less than the amount of the payment for the given positionId. |
| itemCurrency | N3 | no | Currency code of an item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the Order currency. |
| itemCode | ANS..100 | yes | Number (identifier) of an item in the store system |
| [discount](#scroll-bookmark-137) |  | no | Additional block containing attributes of the description of a discount for an item |
| [agentInterest](#scroll-bookmark-138) |  | no | Additional block containing attributes of the description of an agent fee for the sale of goods |
| [tax](#scroll-bookmark-139) |  | no | Additional block containing attributes for the description of a tax. This block can be passed if for a store the fiscalization settings are specified, but the block is not mandatory (values of the parameters from this block will not be checked). |
| itemPrice | N..18 | no | Price of an item of a given positionId in minor denomination of the currency. This block can be passed if for a store the fiscalization settings are specified, but it is not mandatory (values of the parameters from this block will not be checked). |

**quantity** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | N..18 | yes | Quantity of items in one positionId |
| measure | ANS..20 | yes | The unit of measurement for the quantity of item instances |

**itemDetails** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| [itemDetailsParams](#scroll-bookmark-140) |  | no | Additional information on an item. The parameter represents an array of blocks each of which contains information on a certain characteristic of the item. |

Parameters of a block that is included in **itemDetailsParams**:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| value | ANS..255 | yes | Additional information on an item |
| name | ANS..255 | yes | Name of the parameter describing the details of an item |

**discount** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| discountType | ANS..20 | yes | Type of discount applicable to an item |
| discountValue | N..20 | yes | Value of the discount on the item |

**agentInterest** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| interestType | ANS..20 | yes | Type of an agent fee for the sale of goods |
| interestValue | N..20 | yes | Value of the agent fee for the sale of goods |

 **tax** block parameters:

*Necessity of the parameters usage (whether they are mandatory) is indicated for using them within the block. If the block is optional and is missing from the request all parameters that in contains are also optional and must not be passed.*

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| taxType | N..2 | yes | VAT rate. The following values are available:* **0** — without VAT;
* **1** — VAT at the rate of 0%;
* **2** — receipt VAT at the rate of 10%;
* **3** — receipt VAT at the rate of 18%;
* **4** — receipt VAT at the settlement rate of 10/110;
* **5** — receipt VAT at the settlement rate of 18/118.

Mandatory for merchants using fiscalization |
| taxSum | N..18 | no | Amount of the tax calculated by the merchant. The amount is specified in minor denomination. |

**Response parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | yes | Error code. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the language parameter or in the default language. |

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

Classification:

|  |  |
| --- | --- |
| Value | Description |
| 0 | The request has been processed without system errors |
| 5 | Error in the value of the request parameter |
| 5 | Incorrect format of the refungItems parameter |
| 6 | Non-registered OrderId |
| 7 | System error |

Its meaning:

|  |  |
| --- | --- |
| Value | Description |
| 5 | Authorization has been declined |
| 5 | Access is denied |
| 6 | Incorrect order number |
| 7 | Payment must be in an appropriate state |
| 7 | Incorrect deposit amount (less than 1 rouble) |
| 7 | System error |
| 8 | Incorrect format of the refungItems parameter |
| 8 | A mandatory parameter of the Cart is missing |
| 8 | The currency of the Cart does not match the currency of the Order. |
| 8 | The amount for items in the Cart does not match the total amount of the Order |
| 8 | The value of the quantity parameter is too large or too small |
| 8 | The original Order does not contain items with the given number |

**GET request example**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/refund.do?language=ru&orderId=830603cd-a886-483a-9a23-c37fb8018096&password=password&userName=login&jsonParams={"name1":"value1"}&amount=9000&refundItems={"items": [ { "positionId": "2", "name": "Universal Mirror Enduro", "itemDetails":{ "itemDetailsParams": [{"value": "Noname", "name": "brand"}, {"value": "12mm", "name": "diameter" }]},"quantity": { "value": 1.0, "measure": "units" },"itemAmount": 6000, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 6000},{ "positionId": "3", "name": "Warm Grips", "itemDetails": { "itemDetailsParams":[ { "value": "Noname", "name": "brand" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 3000, "itemCurrency": 643, "itemCode": "G-16","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 3000}] } |

**POST request example**

|  |
| --- |
| language=ru&orderId=830603cd-a886-483a-9a23-c37fb8018096&jsonParams={"name1":"value1"}&amount=9000&refundItems={"items": [ { "positionId": "2", "name": "Universal Mirror Enduro", "itemDetails":{ "itemDetailsParams": [{"value": "Noname", "name": "brand"}, {"value": "12mm", "name": "diameter" }]},"quantity": { "value": 1.0, "measure": "units" },"itemAmount": 6000, "itemCurrency": "643", "itemCode": "NM-15","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 6000},{ "positionId": "3", "name": "Warm Grips", "itemDetails": { "itemDetailsParams":[ { "value": "Noname", "name": "brand" }]}, "quantity": { "value": 1.0, "measure": "units" },"itemAmount": 3000, "itemCurrency": 643, "itemCode": "G-16","discount": { "discountType": "percent", "discountValue": "5" },"agentInterest": { "interestType": " agentPercent ", "interestValue": "7" }, "tax": {"taxType": 1,"taxSum": 111}, "itemPrice": 3000}] } |

**Response example**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Successfully"} |

### Request for the details on a receipt

To get the information on receipts for the Order, the getReceiptStatus.do request is used. The following data can be passed in the request:

* Order identifier — orderId or orderNumber;
* Receipt identifier — uuid.

If the Order identifier is passed (orderId or orderNumber), the response returns all the receipts of this Order. On passing only the receipt identifier, the response returns only the data on this receipt. If both the Order and receipt identifiers are passed, the response returns all the receipts of the Order.

**Request parameters**

Name

|  |  |  |  |
| --- | --- | --- | --- |
|  | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection. |
| password | AN..30 | yes | The store password that has been received on connection. |
| orderId | ANS36 | no | Order number in the payment system. The number is unique within the system. To execute the request, the Order number or its identifier in the fiscalizator must be specified. |
| orderNumber | AN..32 | no | Number (identifier) of the Order in the store system To execute the request, the Order number or the identifier in the fiscalizator must be specified. |
| uuid | ANS..32 | no | Receipt identifier in the fiscalizator. To execute the request, the Order number or the identifier in the fiscalizator must be specified. |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |

**Response parameters**

|  |
| --- |
| Some parameters to be returned may depend on the Operator of Fiscal Data used. |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| errorCode | N3 | no | Error code |
| errorMessage | AN..512 | no | Error description in the language passed in the language parameter of the request. |
| orderNumber | AN..32 | no | Number (identifier) of the Order in the store system |
| orderId | ANS36 | no | Order number in the payment system. The number is unique within the system |
| [receipt](#scroll-bookmark-110) |  | no | Block containing the receipt parameters |

 **Receipt** block attributes are present in the table below.

**Name**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Type | Mandatory | Description |
| receiptStatus | N2 | yes | The status of the receipt is defined by the value of this parameter. The field can have the following values:* 0 — The payment is submitted
* 1 — The payment is delivered;
* 2 — A payment error;
* 3 — A refund is submitted;
* 4 — The refund is delivered;
* 5 — A delivery error.
 |
| uuid | ANS..32 | no | Receipt identifier in the fiscalizator. |
| shift\_number | N | no | Shift number. |
| receipt\_number | N | no | Receipt number in the shift. |
| receipt\_datetime | S | no | Date and time of the receipt in the fiscal accumulating mechanism. Shown as the amount of milliseconds passed from 00:00 January 1, 1970. |
| fn\_number | S..16 | no | Fiscal accumulating mechanism number. |
| ecr\_registration\_number | S..20 | no | Cash register device number. |
| device\_number | S..20 | no | Cash register device number. |
| fiscal\_document\_number | N | no | Fiscal number of the document. |
| fiscal\_document\_attribute | S..10 | no | Fiscal attribute of the document. |
| amount\_total | NS..11 | no | Receipt total amount in roubles. |
| serial\_number | S..20 | no | Cash register device manufacturing number. |
| [OFD (Operator of Fiscal Data)](#scroll-bookmark-111) |  | no | Block containing parameters of the fiscalization data operator . |

The attributes of the **OFD** block are present in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| name | S..256 | no | Name of fiscalization data operator. |
| website | S..58 | no | Site of fiscalization data operator. |
| INN | S12 | no | Taxpayer identification number of the fiscalization data operator. |

**Error code**

Error codes and messages are present in the table below.

|  |  |
| --- | --- |
| Error code | Message |
| 1 | At least one of these parameters is required: orderId, orderNumber, or uuid. |
| 5 | Access is denied. |
| 6 | Receipt is not found. |
| 7 | System error. |

**Request example**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/getReceiptStatus.do?userName=login-api&password=password&orderId=abd60d0c-e096-42c3-8b17-6081c67db214 |

**Response example**

|  |
| --- |
| {"errorCode":"0","orderNumber":"220170606034051002\_177","orderId":"abd60d0c-e096-42c3-8b17-6081c67db214","receipt":[{"receiptStatus":1,"uuid":"790925e5-739c-430c-9e92-79d9f14481a4","shift\_number":"27","fiscal\_receipt\_number":"21","receipt\_date\_time":1499256900000,"fn\_number":"9999078900006364","ecr\_registration\_number":"1234567890023481","fiscal\_document\_number":"21","fiscal\_document\_attribute":"3713381819","amount\_total":10000}]} |

### An extended request for the Order status

To get the status of a registered Order, the getOrderStatusExtended.do request is used.

**Request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Mandatory | Description |
| userName | AN..30 | yes | The store login that has been received on connection |
| password | AN..30 | yes | The store password that has been received on connection |
| orderId | ANS36 | yes\* | Order number in the payment system. The number is unique within the system. |
| orderNumber | AN..32 | yes\* | Number (identifier) of the Order in the store system |
| language | A2 | no | Language in the ISO 639-1 encoding. If the language is not specified, it is considered that the language is Russian. An error message will be returned in this language. |

\*The request must contain either orderId or orderNumber. If both parameters are passed in the request, the priority of orderId is higher.

There are several sets of response parameters. It depends on the version of getOrderStatusExtended specified in the settings of the merchant what sets in particular are to be returned.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| orderNumber | AN..32 | yes | Number (identifier) of the Order in the store system | All versions. |
| orderStatus | N2 | no | The status of the Order in the payment system is defined by the value of this parameter. The list of available values is given below. The parameter value is missing if the Order has not been found.* **0** — The Order has been registered, but not paid;
* **1** — A pre-authorized amount is put on hold (for two-phase payments);
* **2** — A full authorization of the Order amount has been executed;
* **3** — Authorizartion is cancelled;
* **4** — A refund operation has been executed for the transaction;
* **5** — Authorization has been initiated though the ACS of the issuing Bank;
* **6** — Authorization has been declined.
 | All versions. |
| actionCode | N3 | yes | Response code. | All versions. |
| actionCodeDescription | AN..512 | yes | Explanation of the response code in the language passed in the request in the Language parameter. | All versions. |
| errorCode | N3 | no | Error code. The following values are available.* **0** — The request has been processed without system errors;
* **1** — [orderId] or [orderNumber] is pending;
* **5** — Access is denied;
* **5** — The user must change their password;
* **6** — The Order is not found;
* **7** — A system error.
 | All versions. |
| errorMessage | AN..512 | no | Description of an error in the language that has been passed in the request in the Language parameter. | All versions. |
| amount | N..20 | yes | Payment amount in kopeks (or cents) | All versions. |
| currency | N3 | no | ISO 4217 code of the payment currency. If the current code is not specified, it is considered to be equal to 810 (Russian roubles). | All versions. |
| date | ANS | yes | Order registration date. | All versions. |
| orderDescription | AN..512 | no | Order description passed on its registration | All versions. |
| ip | AN..20 | yes | IP-address of the customer. | All versions. |
| merchantOrderParams *element — is present in the response if the Order request contains additional parameters of the merchant. Every additional parameter of the Order is present in a separate element* merchantOrderParams*.* |
| name | AN..20 | no | Name of an additional parameter | All versions. |
| value | AN..1024 | no | Value of the additional parameter | All versions. |
| *The* cardAuthInfo *element contains a structure consisting of a list of the* secureAuthInfo *element and the following parameters:* |
| maskedPan | N..19 | no | Masked number of the card that was used for the payment. The masked number is specified only when the Order is paid. | All versions. |
| expiration | N6 | no | Card expiry date in the format YYYYMM. The masked number is specified only when the Order is paid. | All versions. |
| cardholderName | A..64 | no | Name of the holder of the card. The masked number is specified only when the Order is paid. | All versions. |
| approvalCode | AN6 | no | Authorization code for the payment. The field of a fixed length (6 symbols), it can contain numbers and Latin letters. This parameter is to be specified only after the Order is paid. | All versions. |
| chargeback | A..5 | no | Parameter defining whether the funds were forcibly retuned to the customer by the Bank. The available values are:* **true** (true);
* **false** (false).
 | 06 and higher. |
| paymentSystem | N..10 | yes | Name of the payment system. The available values are.* **VISA**;
* **MASTERCARD**;
* **AMEX**;
* **JCB**;
* **CUP**;
* **MIR**.
 | 08 and higher. |
| product | AN..255 | yes | Additional data on corporate cadrs. This data is specified by the support service in the administration console. If this data is missing, an empty value is returned. | 08 and higher. |
| paymentWay | AS..14 | yes | Method of performing the payment (a payment with entering card data, a binding payment, and so on) . | 09 and higher. |
| *The* secureAuthInfo *element (this element consists of the* eci *and* threeDSInfo *elements that are the lists of the parameters* cavv *and* xid*):* |
| eci | N..4 | no | Electronic Commerce Indicator. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| cavv | ANS..200 | no | Value for the cardholder authentication check. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| xid | ANS..80 | no | Electronic Commerce Indicator of the transaction. Value is to be specified only after the Order is paid and in the case of the corresponding permission. | All versions. |
| *The* bindingInfo *consists of the parameters:* |
| clientId | ANS..255 | no | Number (identifier) of the customer in the store system passed on the Order registration. The parameter can be present in the request if creating bindings is enabled for the store. | All versions. |
| bindingId | AN..255 | no | Identifier of the binding that has been created on the payment for the Order or that has been used for the payment. The parameter can be present in the request if creating bindings is enabled for the store. | All versions. |
| authDateTime | ANS | no | Date and time of the authorization. | 02 and higher. |
| authRefNum | AN..24 | no | Registration number of the payment authorization that has been assigned to it on the payment registration. | 02 and higher. |
| terminalId | AN..10 | no | Terminal ID. | 02 and higher. |
| *The* paymentAmountInfo *element consists of the following parameters:* |
| approvedAmount | N..20 | no | Amount that has been put on hold on the card (it is used only for two-phased payments). | 03 and higher. |
| depositedAmount | N..20 | no | Amount confirmed for debiting from the card. | 03 and higher. |
| refundedAmount | N..20 | no | Refund amount. | 03 and higher. |
| paymentState | A..10 | no | Order status. | 03 and higher. |
| feeAmount | N..20 | no | Fee amount. | 11 and higher. |
| *The* bankInfo *element consists of the parameters:* |
| bankName | AN..200 | no | The issuing Bank name. | 03 and higher. |
| bankCountryCode | AN..4 | no | Country code of the issuing Bank. | 03 and higher. |
| bankCountryName | AN..160 | no | The name of the country of the issuing Bank specified in the language passed in the request as the language parameter or specified in the language of the user who has called the method if in the request the language is not specified. | 03 and higher. |
| [orderBundle](#scroll-bookmark-63) | See the description | no | Block containg the Cart of items of the Order. The description of the tag attributes is given below. | 03 and higher. |

**Contents of orderBundle**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| [customerDetails](#scroll-bookmark-112) | See the description | no | Customer data block. See the description below. | 03 and higher. |
| [cartItems](#scroll-bookmark-64) | See the description | no | Block with the attributes of the items in the Cart. The description of the tag attributes is given below. | 03 and higher. |

**Contents of customerDetails**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| email | ANS..40 | no | Customer's email address. | 03 and higher. |
| phone | N.12 | no | Customer's phone number. | 03 and higher. |

**Contents of cartItems**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| [items](#scroll-bookmark-65) | See the description | no | Array of blocks describing items in the Cart. The description of the block parameters is given below.Information of every item in the Cart is passed in a separate block that is included in items. | 03 and higher. |

**Contents of items**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| positionId | N..12 | no | Unique identifier of an item within the Order Cart. | 03 and higher. |
| name | ANS..100 | no | Name or the description of an item in any format. | 03 and higher. |
| [quantity](#scroll-bookmark-113) | See the description | no | Element describing the total of items of one positionId and its unit of measurement. The description of the tag attributes is given below. | 03 and higher. |
| itemAmount | N..18 | no | The total cost of all instances of one positionId specified in minor denomination of the currency. | 03 and higher. |
| depositedItemAmount | N..18 | no | Amount in minor denomination (for example, in kopeks) of one positionId confirmed when debiting funds from the card. | 03 and higher. |
| itemCurrency | N3 | no | Currency code of an item according to ISO 4217. | 03 and higher. |
| itemCode | ANS..100 | no | Number (identifier) of an item in the store system. The parameter must be unique within a request. | 03 and higher. |

**Contents of quantity**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Mandatory | Description | getOrderStatusExtended version |
| value | N..18 | no | Quantity of the item instances of the given positionId. . Use a decimal point as a separator in fractions. | 03 and higher. |
| measure | ANS..20 | no | The unit of measurement for the quantity of item instances. | 03 and higher. |

**GET request example:**

|  |
| --- |
| https://web.rbsuat.com/ab/rest/getOrderStatusExtended.do?userName=userName&password=password&orderId=b9054496-c65a-4975-9418-1051d101f1b9&language=ru&merchantOrderNumber=0784sse49d0s134567890 |

**POST request example:**

|  |
| --- |
| orderId=b9054496-c65a-4975-9418-1051d101f1b9&language=ru&merchantOrderNumber=0784sse49d0s134567890 |

**Response example:**

|  |
| --- |
| {"errorCode":"0","errorMessage":"Успешно","orderNumber":"220170606034051002\_28","orderStatus":2,"actionCode":0,"actionCodeDescription":"","amount":52500,"currency":"643","date":1499343399327,"depositedDate":1499343424170,"orderDescription":"","ip":"127.0.0.1","merchantOrderParams":[],"attributes":[{"name":"mdOrder","value":"467db186-3aaf-4ba1-a66d-403bdde6c86f"}],"cardAuthInfo":{"expiration":"202012","cardholderName":"test","approvalCode":"123456","paymentSystem":"VISA","pan":"411111\*\*1111"},"authDateTime":1499343423166,"terminalId":"123456","authRefNum":"111111111111","paymentAmountInfo":{"paymentState":"DEPOSITED","approvedAmount":52500,"depositedAmount":52500,"refundedAmount":0,"feeAmount":0},"bankInfo":{"bankName":"test","bankCountryCode":"RU","bankCountryName":"Россия"},"orderBundle":{"customerDetails":{"email":"test@test.ru","phone":"79998887766"},"cartItems":{"items":[{"positionId":"1","name":"name","quantity":{"value":1.0,"measure":"me"},"itemAmount":52500,"depositedItemAmount":52500,"itemCurrency":643,"itemCode":"1246754788"}]}},"chargeback":false,"paymentWay":"CARD"} |

Connection URLs

On registering a merchant, the representative is provided with a login and password that can be used in personal area and that must be used in protocols.

The description of the test service (WSDL) is stored at the following address:

* https://web.rbsuat.com/ab/webservices/merchant-ws?wsdl

URL to access REST methods:

|  |  |
| --- | --- |
| Method name | URL |
| Order registration | https://web.rbsuat.com/ab/rest/register.do |
| Order registration with the use of pre-authorization | https://web.rbsuat.com/ab/rest/registerPreAuth.do |
| Request for completion of the Order payment | https://web.rbsuat.com/ab/rest/deposit.do |
| Request for cancellation of a payment for an Order | https://web.rbsuat.com/ab/rest/reverse.do |
| The request for a refund of the funds paid for the Order | https://web.rbsuat.com/ab/rest/refund.do |
| Request for the details on a receipt | https://web.rbsuat.com/ab/rest/getReceiptStatus.do |
| An extended request for the Order status | https://web.rbsuat.com/ab/rest/getOrderStatusExtended.do |

Credentials for testing purposes (OFD Orange Data)

To test fiscalization through OFD Orange Data, in personal area of the Payment Gateway use the following credentials:

* **INN** - 7725327863;
* **Group** - 1.

Credentials needed to access test personal area on the OFD site:

* **URL** - [https://testlk.ofd-ya.ru/;](https://testlk.ofd-ya.ru/)
* **Login** - 001481597336;
* **Password** - Lht6UD7OE.