

Receiving operations results by order number

If the merchant requires not only the information about the order status (approved, cancelled, payment confirmation in process), but also a detailed information about the operations (payment, payment approval, return or cancellation) executed with regards to this order, the merchant can use Web service to receive the results of the operations under a given order number.

To receive the payment result by order number, send a request to IPS Assist server via HTTP POST, SOAP method (in UTF-8 coding) or in JSON format (swagger description: <https://docs.belassist.by/swagger/>).

The request URL for receiving the payment result with a list of operations within the order:

<https://<SERVER-NAME>/orderresult/orderresult.cfm>.

The order search using Web service can be performed only for the specified time period. The default sampling end date is taken to be the current date, while the default sampling start date is the current date, minus three days.

List of request parameters

Parameter	Mandatory field	Adopted values	Default value	Description
orderNumber	Yes	String, 128 characters		Order number
merchant_Id	Yes	Number		The enterprise identifier in IPS Assist
login	Yes	8 - 20 characters		Login (Latin letters, digits and symbol _)
password	Yes	8 - 20 characters		Password (Latin letters and digits)
startYear	No	Year in "2011" format	Minus three days from the current date	Sampling start date (GMT)
startMonth	No	1 - 12	Minus three days from the current date	
startDay	No	1 - 31	Minus three days from the current date	
startHour	No	0 - 23	Minus three days from the current date	
startMin	No	0 - 59	Minus three days from the current date	
endYear	No	Year in "2011" format	Current year	Sampling end date (GMT)
endMonth	No	1 - 12	Current month	
endDay	No	1 - 31	Current day	
endHour	No	0 - 23	Current hour	
endMin	No	0 - 59	Current minute	
language	No	RU EN	EN	Language of the results output
format	Yes /No	3 - XML 4 - SOAP 5 - JSON	3	Format of the results output. Passed only for a request in POST format (by default, the response will be returned in XML format). For other formats, the response is returned in the same format in which the request was made.



All request parameters are automatically validated. The validation rules are given in the table " [The validation rules for input parameters](#) ".

Request example for HTTP POST format:

```
<FORM ACTION="https://<SERVER-NAME>/orderresult/orderresult.cfm" METHOD="POST">
<INPUT TYPE="HIDDEN" NAME="orderNumber" VALUE="1001-01">
<INPUT TYPE="HIDDEN" NAME="merchant_Id" VALUE="Your Merchant_ID">
<INPUT TYPE="HIDDEN" NAME="login" VALUE="Your login">
<INPUT TYPE="HIDDEN" NAME="password" VALUE="Your password">
<INPUT TYPE="HIDDEN" NAME="startYear" VALUE="2011">
<INPUT TYPE="HIDDEN" NAME="startMonth" VALUE="04">
<INPUT TYPE="HIDDEN" NAME="startDay" VALUE="01">
<INPUT TYPE="HIDDEN" NAME="startHour" VALUE="00">
<INPUT TYPE="HIDDEN" NAME="startMin" VALUE="00">
<INPUT TYPE="HIDDEN" NAME="endYear" VALUE="2011">
<INPUT TYPE="HIDDEN" NAME="endMonth" VALUE="04">
<INPUT TYPE="HIDDEN" NAME="endDay" VALUE="02">
<INPUT TYPE="HIDDEN" NAME="endHour" VALUE="00">
<INPUT TYPE="HIDDEN" NAME="endMin" VALUE="00">
<INPUT TYPE="HIDDEN" NAME="format" VALUE="3">
<INPUT TYPE="HIDDEN" NAME="language" VALUE="EN">
<INPUT TYPE="SUBMIT" NAME="submit" VALUE="Execute">
</FORM>
```

List of response parameters:

Para meter	Value
Order parameters	
billnu mber	Unique order number in IPS Assist
ordern umber	Order number
testmo de	Test mode
orderc omme nt	Comment
ordera mount	Original amount of order
orderc urrency	Original currency of order
firstna me	Payer's first name
lastna me	Payer's last name
middle name	Payer's middle name
Email	Payer's e-mail
orderd ate	Date of order
orders tate	Order status
errorc ode ²	Error code
packet date	Request issue date

signature	1) For signature type MD5 - empty; 2) For PGP type - an X value, signed by IPS Assist secret key and converted into BASE64 string.
checksum	1) For PGP type - empty; 2) For MD5 type - uppercase(md5(uppercase(md5(SALT) + md5(X)))), where SALT - secret word; X - result of the following parameters string concatenation: <i>merchant_id, ordernumber, orderamount, ordercurrency, orderstate</i> (without delimiters), + means string concatenation.
Operation parameters	
billnumber	Extended format of billnumber
operationtype	Operation type
operationstate	Operation status
amount	Operation amount
currency	Currency of operation
ipaddress	Payer's IP-address
clientip	Transactor's IP-address
meantype_id	Type of payment means
meansubtype	Payment means subtype
meannumber	Number of payment means
cardholder	Payment means holder
cardexpirationdate	Card expired date
issuobank	Name of issue bank
bankcountry	Country of issue bank
responsecode	Response code
message	Operation result message
customermessage	Result message for a customer
recommendation	Recommendation
approvalcode	Authorization code
protocolname	Protocol
processingname	Processing

operati ondate	Operation date and time (GMT)
authre sult	3Ds authorization result (Y - success, N - fail, A - Attempt, U - unknown, R - rejection, C -not completed for any reason, E - error)
authre quired	The card involvement in 3Ds check result (1 - involved, 0 - not involved, -1 - unknown, null - error appear during involvement check)
slipno	Financial transaction identifier
errorc ode ²	Error code
extern alrefun did ¹	External refund ID
3DSecure parameters	
version	3DSecure protocol version
alphaa uthres ult	3Ds authorization result (Y - success, N - fail, A - Attempt, U - unable to authenticate, R - rejection, C -not completed for any reason, E - error, I - Informational Only)
challen ge	Interaction with the cardholder (C - yes, F - no, D - Decoupled Authentication)
eci	Electronic Commerce Indicator (5 - full authentication, 6 - authentication attempt, 7 - without authentication)

¹ The parameter is sent only if it was sent in the cancellation request using the *wscancel* service and the results output format is JSON or XML.

² To transfer this parameter, please, contact the support service (support@belassist.by).

The parameter is useful for orders in *Declined* and *Timeout* statuses, it helps to identify a payment error (for example, to build a report on various errors), but it does not determine the payment status. The parameter will be present in both the operation data block and the order data block. In most cases, the *errorcode* parameter will be 0 for an order. This does not mean that the order has been successfully paid. This means that there is no error code at the order level. The payment status is determined by the *orderstate* and the *responsecode*. In addition, an order that does not contain an operation can be created (and subsequently closed with an error).

An example of a request result for an order without an operation:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ws="http://www.paysecure.ru/ws/"><soapenv:Body>
<ws:orderresultResponse><orderresult>
  <order>
    <ordernumber>2022_07_12_00_order2</ordernumber>
    <billnumber>516009019085079</billnumber>
    <testmode>0</testmode>
    <ordercomment>test payment</ordercomment>
    <orderamount>67.35</orderamount>
    <ordercurrency>BYN</ordercurrency>
    <firstname/>
    <lastname/>
    <middlename/>
    <email>test@test.by</email>
    <orderdate>31.08.2022 15:53:38</orderdate>
    <orderstate>Declined</orderstate>
    <errorcode>14</errorcode>
    <packetdate>31.08.2022 15:54</packetdate>
    <signature/>
    <checkvalue>BD01127113BB4E085C2FDCC98175466A</checkvalue>
  </order></orderresult>
</ws:orderresultResponse></soapenv:Body></soapenv:Envelope>
```

An example of a request result for an order with an operation:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ws="http://www.paysecure.ru/ws/"><soapenv:Body>
<ws:orderresultResponse><orderresult>
  <order>
    <ordernumber>FS1662389086973_40</ordernumber>
    <billnumber>5747838257354506</billnumber>
    <testmode>0</testmode>
    <ordercomment>test payment</ordercomment>
    <orderamount>67.35</orderamount>
    <ordercurrency>BYN</ordercurrency>
    <firstname/>
    <lastname/>
    <middlename/>
    <email>test@test.by</email>
    <orderdate>31.08.2022 15:53:38</orderdate>
    <orderstate>Declined</orderstate>
    <errorcode>0</errorcode>
    <packetdate>31.08.2022 15:54</packetdate>
    <signature/>
    <checkvalue>BD01127113BB4E085C2FDCC98175466A</checkvalue>
    <operation>
      <billnumber>5747838257354506.1</billnumber>
      <operationtype>100</operationtype>
      <operationstate>Failure</operationstate>
      <orderamount>67.35</orderamount>
      <ordercurrency>BYN</ordercurrency>
      <clientip>81.211.118.98</clientip>
      <ipaddress>0.0.0.0</ipaddress>
      <meantype_id>1</meantype_id>
      <meantypename>VISA</meantypename>
      <meansubtype>Visa Platinum Business / Visa Business Enhanced (U.S.)</meansubtype>
      <meannumber>428564***0018</meannumber>
      <cardholder>N/A</cardholder>
      <cardexpirationdate>12/25</cardexpirationdate>
      <issuebank>BANK</issuebank>
      <bankcountry></bankcountry>
      <responsecode>AS100</responsecode>
      <message>3-D Secure.</message>
      <customermessage>3-D Secure.</customermessage>
      <recommendation>.</recommendation>
      <approvalcode></approvalcode>
      <protocoltypename>NET</protocoltypename>
      <processingname>XXX</processingname>
      <operationdate>31.08.2022 15:53:38</operationdate>
      <authresult></authresult>
      <authrequired>0</authrequired>
      <slipno></slipno>
      <threedsdata>
        <version>2.2.0</version>
        <alphaauthresult></alphaauthresult>
        <challenge>F</challenge>
        <eci></eci>
      </threedsdata>
      <errorcode>3DS72</errorcode>
    </operation>
  </order></orderresult>
</ws:orderresultResponse></soapenv:Body></soapenv:Envelope>
```



Attention! Please, note that several operations can be created within one order (payment, payment confirmation, cancellation). Furthermore, there can be several payment operations within one order, if some of them were unsuccessful. The order can have the only one successful payment operation. Thus there can be several enclosed operations within one order number in the response to a request for the operations results.

Attention! The *testmode* value of response has to be checked. If the payment was made in test mode (*testmode* = 1), then the shipment of goods or providing of services for the current request is not required.

! There are performance [limitations](#) when using the service.

An example of a request result in XML format:

```
<?xml version='1.0' encoding='utf-8' standalone='yes'?>
<!DOCTYPE result [
<!ATTLIST result
    firstcode CDATA #REQUIRED
    secondcode CDATA #REQUIRED
    count CDATA #REQUIRED>
<!--ELEMENT result (order*)-->
<!--ELEMENT order (ordernumber?,billnumber?,testmode?,ordercomment?,orderamount?,ordercurrency?,firstname?,
lastname?,middlename?,email?,orderdate?,orderstate?,packetdate?,signature?,checkvalue?,operation*)-->
<!--ELEMENT ordernumber (#PCDATA)-->
<!--ELEMENT billnumber (#PCDATA)-->
<!--ELEMENT testmode (#PCDATA)-->
<!--ELEMENT ordercomment (#PCDATA)-->
<!--ELEMENT orderamount (#PCDATA)-->
<!--ELEMENT ordercurrency (#PCDATA)-->
<!--ELEMENT firstname (#PCDATA)-->
<!--ELEMENT lastname (#PCDATA)-->
<!--ELEMENT middlename (#PCDATA)-->
<!--ELEMENT email (#PCDATA)-->
<!--ELEMENT orderdate (#PCDATA)-->
<!--ELEMENT orderstate (#PCDATA)-->
<!--ELEMENT packetdate (#PCDATA)-->
<!--ELEMENT signature (#PCDATA)-->
<!--ELEMENT checkvalue (#PCDATA)-->
<!--ELEMENT operation (billnumber?,operationtype?,operationstate?,amount?,currency?,clientip?,ipaddress?,
meantype_id?,meantypename?,meansubtype?,meannumber?,cardholder?,cardexpirationdate?,issuebank?,bankcountry?,
responsecode?,message?,customermessage?,recommendation?,approvalcode?,protocoltypename?,processingname?,
operationdate?,authresult?,authrequired?, slipno?)-->
<!--ELEMENT operationtype (#PCDATA)-->
<!--ELEMENT operationstate (#PCDATA)-->
<!--ELEMENT amount (#PCDATA)-->
<!--ELEMENT currency (#PCDATA)-->
<!--ELEMENT clientip (#PCDATA)-->
<!--ELEMENT ipaddress (#PCDATA)-->
<!--ELEMENT meantype_id (#PCDATA)-->
<!--ELEMENT meantypename (#PCDATA)-->
<!--ELEMENT meansubtype (#PCDATA)-->
<!--ELEMENT meannumber (#PCDATA)-->
<!--ELEMENT cardholder (#PCDATA)-->
<!--ELEMENT cardexpirationdate (#PCDATA)-->
<!--ELEMENT issuebank (#PCDATA)-->
<!--ELEMENT bankcountry (#PCDATA)-->
<!--ELEMENT responsecode (#PCDATA)-->
<!--ELEMENT message (#PCDATA)-->
<!--ELEMENT customermessage (#PCDATA)-->
<!--ELEMENT recommendation (#PCDATA)-->
<!--ELEMENT approvalcode (#PCDATA)-->
<!--ELEMENT protocoltypename (#PCDATA)-->
<!--ELEMENT processingname (#PCDATA)-->
<!--ELEMENT operationdate (#PCDATA)-->
<!--ELEMENT authresult (#PCDATA)-->
<!--ELEMENT authrequired (#PCDATA)-->
<!--ELEMENT slipno (#PCDATA)-->]-->
<result firstcode='0' secondcode='0' count='1'>
<order>
<ordernumber>0001-01</ordernumber>
<billnumber>511111100000001</billnumber>
<testmode>1</testmode>
<ordercomment> </ordercomment>
```

```
<orderamount>100.00</orderamount>
<ordercurrency>BYN</ordercurrency>
<firstname>Test</firstname>
<lastname>Testov</lastname>
<middlename>Testovich</middlename>
<email>test@testpost.by</email>
<orderdate>06.07.2016 11:23:13</orderdate>
<orderstate>Approved</orderstate>
<packetdate>06.07.2016 12:05</packetdate>
<signature></signature>
<checkvalue> </checkvalue>
<operation>
<billnumber>511111100000001.1</billnumber>
<operationtype>100</operationtype>
<operationstate>Success</operationstate>
<amount>100.00</amount>
<currency>BYN</currency>
<clientip>111.23.11.23</clientip>
<ipaddress>0.0.0.0</ipaddress>
<meantype_id>1</meantype_id>
<meantypename>VISA</meantypename>
<meansubtype>Classic</meansubtype>
<meannumber>411111****1111</meannumber>
<cardholder>TEST</cardholder>
<cardexpirationdate>12/20</cardexpirationdate>
<issuebank>New Bank</issuebank>
<bankcountry>Russia</bankcountry>
<responsecode>AS000</responsecode>
<message> </message>
<customermessage> </customermessage>
<recommendation></recommendation>
<approvalcode>F41412</approvalcode>
<protocoltypename>NET</protocoltypename>
<processingname>Name</processingname>
  <operationdate>06.07.2016 11:24:13</ operationdate>
<authresult>Y</authresult>
<authrequired>1</authrequired>
</slipno></operation>
<threedsdata>
  <version>1.0.0</version>
  <alphaauthresult>Y</alphaauthresult>
  <challenge>C</challenge>
  <eci>5</eci>
</threedsdata>
<operation>
<billnumber>511111100000001.2</billnumber>
<operationtype>200</operationtype>
<operationstate>Success</operationstate>
<amount>100.00</amount>
<currency>BYN</currency>
<clientip>111.23.11.23</clientip>
<ipaddress>0.0.0.0</ipaddress>
<meantype_id>1</meantype_id>
<meantypename>VISA</meantypename>
<meansubtype>Classic</meansubtype>
<meannumber>411111****1111</meannumber>
<cardholder>TEST</cardholder>
<cardexpirationdate>12/20</cardexpirationdate>
<issuebank>New Bank</issuebank>
<bankcountry>Russia</bankcountry>
<responsecode>AS000</responsecode>
<message> </message>
<customermessage> </customermessage>
<recommendation></recommendation>
<approvalcode></approvalcode>
<protocoltypename></protocoltypename>
<processingname>Name</processingname>
  <operationdate>06.07.2016 19:24:13</operationdate>
<authresult></authresult>
<authrequired></authrequired>
</slipno>
```

```
</operation></order></result>
```

An example of request result in XML format, returning the error (wrong password):

```
<?xml version="1.0" encoding="utf-8" standalone="yes" ?>
<!DOCTYPE result [...]>
<result firstcode="7" secondcode="102" count="0"></result>
```

For the description of the first and second codes of the automated interfaces refer to the table [Error codes](#). Tables [Order state](#), [Operation type](#), [Response Codes](#), [Currency codes](#) also include the descriptions of possible order statuses, types of operations, response codes and currency codes, respectively. The first 6 digits and the last 4 digits of the card number are returned as the field <meannumber> value; the other digits are hidden under symbol *.

The WEB-service description for SOAP format can be seen on page:

<https://<SERVER-NAME>/orderresult/orderresult.wsdl>.



If the order payment attempt was unsuccessful (card is not authorized or timeout), then the payment repeat will create a new unique number (*billNumber*) in the IPS Assist for the same order number of internet-shop, which will be reflected in the response to the order status request. In this case, the response to the request contains all the operations performed under this order number with all relevant unique billnumbers of IPS Assist in order of implementation of them.

An example of request result in SOAP format for the case of successful payment order at the second attempt, the first attempt was closed due to a timeout, and the second (successful) consists of two operations:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ws="http://www.paysecure.ru/ws/"><soapenv:Body>
<ws:orderresultResponse><orderresult>
  <order>
    <ordernumber>13032014_122</ordernumber>
    <billnumber>5500069208498005</billnumber>
    <testmode>1</testmode>
    <ordercomment> </ordercomment>
    <orderamount>100.00</orderamount>
    <ordercurrency>BYN</ordercurrency>
    <firstname>Test</firstname>
    <lastname>Testov</lastname>
    <middlename>T.</middlename>
    <email>test@test.by</email>
    <orderdate>06.07.2016 13:38:24</orderdate>
    <orderstate>Timeout</orderstate>
    <packetdate>06.07.2016 14:55</packetdate>
    <signature></signature>
    <checkvalue>863F176DC699131758B2230EA93BC911</checkvalue>
  </order>
  <order>
    <ordernumber>13032014_122</ordernumber>
    <billnumber>5500069208498070</billnumber>
    <testmode>1</testmode>
    <ordercomment> </ordercomment>
    <orderamount>100.00</orderamount>
    <ordercurrency>BYN</ordercurrency>
    <firstname>Test</firstname>
    <lastname>Testov</lastname>
    <middlename>T.</middlename>
    <email>test@test.by</email>
    <orderdate>06.07.2016 14:52:09</orderdate>
    <orderstate>Approved</orderstate>
    <packetdate>06.07.2016 14:55</packetdate>
    <signature></signature>
    <checkvalue>E458CD73F1AA3F994F4D97C40613FD0A</checkvalue>
    <operation>
      <billnumber>5500069208498070.1</billnumber>
      <operationtype>100</operationtype>
      <operationstate>Success</operationstate>
      <amount>100.00</amount>
      <currency>BYN</currency>
      <clientip>10.10.10.10</clientip>
```

```

<ipaddress>0.0.0.0</ipaddress>
<meantype_id>1</meantype_id>
<meantypename>VISA</meantypename>
<meansubtype>Busines</meansubtype>
<meannumber>462710****4724</meannumber>
<cardholder>TEST</cardholder>
<cardexpirationdate>12/20</cardexpirationdate>
<issuebank>Bank</issuebank>
<bankcountry>RUS</bankcountry>
<responsecode>AS000</responsecode>
<message> </message>
<customermessage> </customermessage>
<recommendation></recommendation>
<approvalcode>X53576</approvalcode>
<protocoltypename>NET</protocoltypename>
<processingname>Fake</processingname>
<operationdate>06.07.2016 14:52:10</operationdate>
<authresult></authresult>
<authrequired>0</authrequired>
<slipno></slipno>
<threedsdata>
  <version>1.0.0</version>
  <alphaauthresult>C</alphaauthresult>
  <challenge>C</challenge>
  <eci></eci>
</threedsdata>
</operation>
<operation>
  <billnumber>5500069208498070.2</billnumber>
  <operationtype>200</operationtype>
  <operationstate>Success</operationstate>
  <amount>100.00</amount>
  <currency>BYN</currency>
  <clientip>10.10.10.10</clientip>
  <ipaddress>0.0.0.0</ipaddress>
  <meantype_id>1</meantype_id>
  <meantypename>VISA</meantypename>
  <meansubtype>Busines</meansubtype>
  <meannumber>462710****4724</meannumber>
  <cardholder>TEST</cardholder>
  <cardexpirationdate>12/20</cardexpirationdate>
  <issuebank>Bank</issuebank>
  <bankcountry>RUS</bankcountry>
  <responsecode>AS000</responsecode>
  <message> </message>
  <customermessage> </customermessage>
  <recommendation></recommendation>
  <approvalcode></approvalcode>
  <protocoltypename></protocoltypename>
  <processingname>Fake</processingname>
  <operationdate>06.07.2016 14:53:37</operationdate>
  <authresult></authresult>
  <authrequired>0</authrequired>
  <slipno></slipno>
  <threedsdata>
    <version>1.0.0</version>
    <alphaauthresult>Y</alphaauthresult>
    <challenge>C</challenge>
    <eci>5</eci>
  </threedsdata>
</operation>
</order>
</orderresult></ws:orderresultResponse></soapenv:Body></soapenv:Envelope>

```

**Attention!**

The following root certificates have to be installed on the requester side in the Trusted Root Certification Authorities Store for correct work with WEB-services via secure communication over TLS:

- root certificates GlobalSign (<https://www.globalsign.com/repository/ca-certificates/>):
 - GlobalSign Root R3;
 - GlobalSign ECC Root R5;
 - GlobalSign Root R6.
- root certificates Sectigo (<https://www.sectigo.com/knowledge-base/detail/Sectigo-Root-Certificates/kA03I000000c4KV>):
 - USERTrust RSA Certification Authority;
 - USERTrust ECC Certification Authority.

Before to start, check the presence of these certificates in the trust store and add it if necessary.

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