

Operations results within a specified period

The merchant can also get the results of the transactions performed within a certain period by means of Web service.

To get the authorization results, 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 authorization results:

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

You can get the results via Web service only for a specified time period not exceeding 24 hours. For this, specify the values of parameters that set forth the sampling start date, and parameters setting the sampling end date, so that the difference between these dates is no more than 24 hours. Otherwise, the default values will be used for these parameters (for the last three hours). In other words, if parameters of the sampling start and end dates are not specified, or specified incorrectly, the results of the operations performed within the last three hours will be output as the request results. Please, note that the parameters of the sampling date and time shall be indicated for GMT/UTC time zone.

If the buyer interrupted the payment process before the selection of payment means then there no payment operation created in IPS Assist and there no operations on this order in the results displayed.



Attention! You can request the operations results only for the time period not exceeding 24 hours and with the maximum interval of 10 minutes.

List of request parameters:

Parameter	Mandatory field	Adopted values	Default value	Description
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)
test Mode	Yes	0 1	0	Mode (0 – operation mode, 1– test mode)
language	No	RU EN	EN	Language of the results output
format	No	1 – CSV 3 – XML 4 – SOAP 5 – JSON	1	Format of the results output. Passed only for a request in POST format (by default, the response will be returned in CSV format). For other formats, the response is returned in the same format in which the request was made.
meanType_Id	No	1 – VISA 2 – MasterCard 5 – AMEX 38 – ERIP	All values sampling by default	Sampling by types of payment means
operationState	No	N – created, P – being processed, S – completed, F – failed, T – closed upon time expiration	All values sampling by default	Sampling by operation states. Use upper case only.
operationType	No	A – payment; C – payment confirmation; R – cancellation	All values sampling by default	Sampling by operation types. Use upper case only.

start Day	No	dd	By default: minus three hours from the current time at the moment of sampling	Sampling start date (GMT)
start Month	No	mm		
start Year	No	yyyy		
start Hour	No	hh		
start Min	No	mm		
end Day	No	dd	By default: current time at the moment of sampling	Sampling end date (GMT)
end Month	No	mm		
end Year	No	yyyy		
end Hour	No	hh		
end Min	No	mm		
date Time Mode	No	0 – by order date; 1 – by start date; 2 – by end date.	0	Date type - target date for data sampling
zipFlag	No	"0" – browser "1" – file "2" – ZIP	0	Format of the results output



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

Based on the values of the request parameters the replay information is selected and formatted.

For example, only successful payment operations by VISA cards can be received as the request result.

An example of HTTP POST results request returning the information on the completed payment operations by VISA cards in the test mode from 07:00 till 11:00 (GMT) 06.07.2016 in XML format:

```
<FORM ACTION="https://<SERVER-NAME>/resultbydate/resultbydate.cfm" method="POST">
<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="testMode" VALUE="1">
<INPUT TYPE="hidden" NAME="language" VALUE="EN">
<INPUT TYPE="hidden" NAME="meanType_ID" VALUE="1">
<INPUT TYPE="hidden" NAME="operationState" VALUE="S">
<INPUT TYPE="hidden" NAME="operationType" VALUE="A">
<INPUT TYPE="hidden" NAME="startDay" VALUE="06">
<INPUT TYPE="hidden" NAME="startMonth" VALUE="07">
<INPUT TYPE="hidden" NAME="startYear" VALUE="2016">
<INPUT TYPE="hidden" NAME="startHour" VALUE="07">
<INPUT TYPE="hidden" NAME="startMin" VALUE="00">
<INPUT TYPE="hidden" NAME="endDay" VALUE="06">
<INPUT TYPE="hidden" NAME="endMonth" VALUE="07">
<INPUT TYPE="hidden" NAME="endYear" VALUE="2016">
<INPUT TYPE="hidden" NAME="endHour" VALUE="11">
<INPUT TYPE="hidden" NAME="endMin" VALUE="00">
<INPUT TYPE="hidden" NAME="format" VALUE="3">
<INPUT TYPE="Submit"></FORM>
```

List of response parameters:

Parameter	Value
ordernumber	Order number
billnumber	Extended format of billnumber
testmode	Test mode
ordercomment	Comment
orderamount	Original amount of order
ordercurrency	Original currency of order
amount	Operation amount
currency	Operation currency
rate	Currency rate
lastname	Payer's last name
firstname	Payer's first name
middlename	Payer's middle name
Email	Payer's e-mail
clientip	Transactor's IP-address
ipaddress	Payer's IP-address
meantype_id	Payment means ID
meantypename	Type of payment means
meansubtype	Payment means subtype
meannumber	Number of payment means
cardholder	Payment means holder
issuobank	Name of issue bank
bankcountry	Country of issue bank
orderdate	Date of order
orderstate	Order state
responsecode	Response code

messa ge	Message
custom ermessa ge	Result message for a customer
recom menda tion	Recommendations
approv alcode	Authorization code
protoc olname	Protocol
proces singna me	Processing
operati ontype	Operation type
operati ondate	Operation date and time (GMT)
authre sult	3Ds authorization result (Y – success, N - fail, A - Attempt, U – unknown)
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
packet date	Request issue date
checkv alue	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.
	Card expired date



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.

An example of field for outputting the results 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 (payment*)-->
<!--ELEMENT payment (ordernumber?,billnumber?,testmode?,ordercomment?,orderamount?,ordercurrency?,amount?,
currency?,rate?,firstname?,lastname?,middlename?,email?,clientip?,ipaddress?,meantype_id?,meantypename?,
meansubtype?,meannumber?,cardholder?,issuebank?,bankcountry?,orderdate?,orderstate?,responsecode?,message?,
customermassage?,recommendation?,approvalcode?,protocoltypename?,processingname?,operationtype?,operationdate?,
authresult?,authrequired?, slipno?,packetdate?,signature?,checkvalue?,cardexpirationdate?,)-->
<!--ELEMENT ordernumber (#PCDATA)-->
<!--ELEMENT billnumber (#PCDATA)-->
<!--ELEMENT testmode (#PCDATA)-->
<!--ELEMENT ordercomment (#PCDATA)-->
<!--ELEMENT orderamount (#PCDATA)-->
<!--ELEMENT ordercurrency (#PCDATA)-->
<!--ELEMENT amount (#PCDATA)-->
<!--ELEMENT currency (#PCDATA)-->
<!--ELEMENT rate (#PCDATA)-->
<!--ELEMENT firstname (#PCDATA)-->
<!--ELEMENT lastname (#PCDATA)-->
<!--ELEMENT middlename (#PCDATA)-->
```

```
<!ELEMENT email (#PCDATA)>
<!ELEMENT clientip (#PCDATA)>
<!ELEMENT ipaddress (#PCDATA)>
<!ELEMENT meantype_id (#PCDATA)>
<!ELEMENT meantypename (#PCDATA)>
<!ELEMENT meansubtype (#PCDATA)>
<!ELEMENT meannumber (#PCDATA)>
<!ELEMENT cardholder (#PCDATA)>
<!ELEMENT issuebank (#PCDATA)>
<!ELEMENT bankcountry (#PCDATA)>
<!ELEMENT orderdate (#PCDATA)>
<!ELEMENT orderstate (#PCDATA)>
<!ELEMENT responsecode (#PCDATA)>
<!ELEMENT message (#PCDATA)>
<!ELEMENT customermessage (#PCDATA)>
<!ELEMENT recommendation (#PCDATA)>
<!ELEMENT approvalcode (#PCDATA)>
<!ELEMENT protocoltypename (#PCDATA)>
<!ELEMENT processingname (#PCDATA)>
<!ELEMENT operationtype (#PCDATA)>
<!ELEMENT operationdate (#PCDATA)>
<!ELEMENT authresult (#PCDATA)>
<!ELEMENT authrequired (#PCDATA)>
<!ELEMENT slipno (#PCDATA)>
<!ELEMENT packetdate (#PCDATA)>
<!ELEMENT signature (#PCDATA)>
<!ELEMENT checkvalue (#PCDATA)>
<!ELEMENT cardexpirationdate (#PCDATA)>]>
<result firstcode='0' secondcode='0' count='17'>
<payment>
<ordernumber>0001-01</ordernumber>
<billnumber>51111110000001.1</billnumber>
<testmode>1</testmode>
<ordercomment>test payment</ordercomment>
<orderamount>100.00</orderamount>
<ordercurrency>BYN</ordercurrency>
<amount>100.00</amount>
<currency>BYN</currency>
<rate>1</rate>
<firstname>Test</firstname>
<lastname>Testov</lastname>
<middlename>Testovich</middlename>
<email>test@testpost.ru</email>
<clientip>111.23.11.23</clientip>
<ipaddress>0.0.0</ipaddress>
<meantype_id>1</meantype_id>
<meantypename>VISA</meantypename>
<meansubtype>Corporate Purchasing Card</meansubtype>
<meannumber>411111****1111</meannumber>
<cardholder>TEST</cardholder>
<issuebank>BANK </issuebank>
<bankcountry>Russia</bankcountry>
<orderdate>06.07.2016 08:39:25</orderdate>
<orderstate>Approved</orderstate>
<responsecode>AS000</responsecode>
<message>Success </message>
<customermessage>Success </customermessage>
<recommendation></recommendation>
<approvalcode>F31720</approvalcode>
<protocoltypename>NET</protocoltypename>
<processingname>Name</processingname>
<operationtype>100</operationtype>
<operationdate>06.07.2016 06:39:42</operationdate>
<authresult/>
<authrequired>0</authrequired>
<slipno>11111</slipno>
<packetdate>06.07.2016 10:55:51</packetdate>
<checkvalue> </checkvalue>
<cardexpirationdate>12/20</cardexpirationdate>
</payment>
<payment>
```

```
...
</payment>
</result>
```

An example of field for outputting the results in CSV format:

```
"ordernumber";"billnumber";"testmode";"ordercomment";"orderamount";"ordercurrency";"amount";"currency";"rate";"firstname";"
lastname";"middlename";"email";"clientip";"ipaddress";"meantype_id";"meantypename";"meansubtype";"meannumber";"
cardholder";"issuebank";"bankcountry";"orderdate";"orderstate";"responsecode";"message";"customermmessage";"
recommendation";"approvalcode";"protocoltypename";"processingname";"operationtype";"operationdate";"authresult";"
authrequired";"slipno";"packetdate";"checkvalue";"cardexpirationdate"; "001-1";"5000000000000000.1";"0";"test payment";"
70.00";"USD";"137.26";"BYN";"1.9608";"Testov";"ynp";"S."; "test@test.by";"10.20.10.00";"0.0.0.0";"1";"VISA";"Classic";"
411111****1111";"TEST";"New Bank";"Russia";"06.07.2016 07:51:42";"Paid";"AS000";"Completed."; "Completed."; "X28577";"
NET";"Fake";"100";"06.07.2016 06:39:42";"";"0";"";"06.07.2016 12:27:32";"5189407747A5435E9E7A0C06A7BC18CD";"12/20";
```

If an error occurs, Web service will return the error first and second code values, for example, in XML format (in case of 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 Table [Codes of automated interfaces](#) . Tables [Order State](#) , [Operation Type](#) , [Response Code](#) and [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>/resultbydate/resultbydate.wsdl> .

Replay example in SOAP format:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ws="http://www.paysecure.ru/ws/"><soapenv:Body>
<ws:resultbydateResponse><resultbydate><payment>
<ordernumber>18062012_SDR</ordernumber>
<billnumber>550000110000001.1</billnumber>
<testmode>1</testmode>
<ordercomment>test payment</ordercomment>
<orderamount>21.00</orderamount>
<ordercurrency>BYN</ordercurrency>
<amount>21.00</amount>
<currency>BYN</currency>
<rate>1</rate>
<firstname>Test</firstname>
<lastname>Testov</lastname>
<middlename>T.</middlename>
<email>test@test.by</email>
<clientip>10.10.10.10</clientip>
<ipaddress>0.0.0.0</ipaddress>
<meantype_id>2</meantype_id>
<meantypename>MasterCard</meantypename>
<meansubtype>Standart</meansubtype>
<meannumber>546792***4128</meannumber>
<cardholder>TEST</cardholder>
<issuebank>Bank</issuebank>
<bankcountry>RUS</bankcountry>
<orderdate>06.07.2016 11:10:06</orderdate>
<orderstate>Approved</orderstate>
<responsecode>AS000</responsecode>
<message>Success</message>
<customermessage>Success</customermessage>
<recommendation/>
<approvalcode>X40334</approvalcode>
<protocoltypename>NET</protocoltypename>
<processingname>Fake</processingname>
<operationtype>100</operationtype>
<operationdate>06.07.2016 11:10:07</operationdate>
<authresult/>
<authrequired>0</authrequired>
<slipno></slipno>
<packetdate>06.07.2016 11:22:37</packetdate>
<checkvalue>45A33F800F2BD16C02E3D2F5C81557A0</checkvalue>
<cardexpirationdate>12/20</cardexpirationdate></payment>
</resultbydate></ws:resultbydateResponse ></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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