Receiving status by order number

The merchant can also find out the payment result (order status) by the order number using Web service. All possible order statuses are listed in the table Order states.

To receive the order status 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 order status:

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

The order search using Web service can be performed only for the specified time period. For this, you have to specify the time period, when the order payments started to be performed using the parameters *startDay*, *startMonth*, *startYear* setting forth the sampling starting date, and the parameters *endDay*, *endMonth*, *endYear* setting forth the sampling end date. If the parameters are not specified, or incorrectly specified, the default values will be applied. 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 "YYYY" 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	
format	No	1 – CSV 3 – XML 4 - SOAP 5 - JSON	4	Format of the results output. Passed only for a request in POST format (by default, the response will be in SOAP 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 .

An example of HTTP POST request for receiving a status of order 1001-01 whose payment started on July 6, 2016 (GMT):

```
<FORM ACTION="https://<SERVER-NAME>/orderstate/orderstate.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="2016">
<INPUT TYPE="HIDDEN" NAME="startMonth" VALUE="07">
<INPUT TYPE="HIDDEN" NAME="startDay" VALUE="06">
<INPUT TYPE="HIDDEN" NAME="startHour" VALUE="00">
<INPUT TYPE="HIDDEN" NAME="startMin" VALUE="00">
<INPUT TYPE="HIDDEN" NAME="endYear" VALUE="2016">
<INPUT TYPE="HIDDEN" NAME="endMonth" VALUE="07">
<INPUT TYPE="HIDDEN" NAME="endDay" VALUE="07">
<INPUT TYPE="HIDDEN" NAME="endHour" VALUE="00">
<INPUT TYPE="HIDDEN" NAME="endMin" VALUE="00">
<INPUT TYPE="HIDDEN" NAME="format" VALUE="3">
<INPUT TYPE="SUBMIT" NAME="submit" VALUE="Submit">
</FORM>
```

List of response parameters:

Parameter	**Value**
billnumber	Unique order number in IPS Assist
ordernumber	Order number
orderstate	Order status
orderamount	Original amount of order
ordercurrency	Original currency of order
packetdate	Request issue date (GMT)
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.
checkvalue	Request validation code 1) For signature type MD5 – calculated as: uppercase(md5(uppercase(md5(SALT) + md5(X)))), where SALT – the secret word; X – is string concatenation of *merchant_id, ordernumber, orderamount, ordercurrency, orderstate* string representations (without delimiters). 2) For PGP type – empty

An example of response result in CSV format:

```
ordernumber;billnumber;orderamount;ordercurrency;orderstate;packetdate;signature;checkvalue;2306-08;
551508910014022;100.00;RUB;Approved;06.07.2016 11:59;; D6313123A5C09;
```

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?,orderamount?,ordercurrency?,orderstate?,packetdate?,checkvalue?)>
<!ELEMENT ordernumber (#PCDATA)>
<!ELEMENT billnumber (#PCDATA)>
<!ELEMENT orderamount (#PCDATA)>
<!ELEMENT ordercurrency (#PCDATA)>
<!ELEMENT orderstate (#PCDATA)>
<!ELEMENT packetdate (#PCDATA)>
<!ELEMENT checkvalue (#PCDATA)>]>
<result firstcode='0' secondcode='0' count='1'>
<order> <ordernumber>0001-01</ordernumber>
<billnumber>511111100000001</billnumber>
<orderamount>100.00</orderamount>
<ordercurrency>BYN</ordercurrency>
<orderstate>Approved</orderstate>
<packetdate>06.07.2016 11:58</packetdate>
<signature></signature>
<checkvalue> </checkvalue>
</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 of the Annex.

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

https://<SERVER-NAME>/orderstate/orderstate.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.

An example of request result in SOAP format for the case of successful order payment at the second attempt:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ws="http://www.paysecure.ru/ws
/"><soapenv:Body>
<ws:orderstateResponse>
   <orderstate>
      <order>
        <ordernumber>13032014_121</ordernumber>
        <billnumber>5500069208497981</billnumber>
        <orderamount>121.00</orderamount>
        <ordercurrency>BYN</ordercurrency>
        <orderstate> Declined </orderstate>
        <packetdate>06.07.2016 13:34</packetdate>
        <signature></signature>
        <checkvalue>45A33F800F2BD16C02E3D2F5C81557A0</checkvalue>
      </order>
        <ordernumber>13032014_121</ordernumber>
        <billnumber>5500069208497999</billnumber>
        <orderamount>121.00</orderamount>
        <ordercurrency>BYN</ordercurrency>
        <orderstate>Approved</orderstate>
        <packetdate>06.07.2016 13:34</packetdate>
        <signature></signature>
        <checkvalue>671768C59429DE5A9C5BBD1E7F573666</checkvalue>
      </order>
   </orderstate>
</ws:orderstateResponse>
</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/kA03l000000c4KV):
  - USERTrust RSA Certification Authority;
  - USERTrust ECC Certification Authority.

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

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