

Payment confirmation

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The processes of bankcard authorization (payment operation) and financial transaction (financial confirmation) in the double-stage operation mode are split.



If you want to use the double-stage payment mechanism, you should first consult with the support service staff (support@belassist.by) .

Bankcard payment operation

At the first stage, the bankcard is authorized, its credit status is verified and the funds at the client's account are blocked. If the enterprise uses the double-stage operation mode, then, besides the mandatory and additional payment parameters (as described in section " [Payment request](#) "), there is a need to send the parameter `delay=1` in the authorization request.

```
<FORM ACTION=" https://<SERVER-NAME>/pay/order.cfm" METHOD="POST">
<INPUT TYPE="HIDDEN" NAME="merchant_Id" VALUE="Your Merchant_ID">
<INPUT TYPE="HIDDEN" NAME="orderNumber" VALUE="A20042011_28">
<INPUT TYPE="HIDDEN" NAME="orderAmount" VALUE="237.40">
<INPUT TYPE="HIDDEN" NAME="orderCurrency" VALUE="USD">
<INPUT TYPE="HIDDEN" NAME="delay" VALUE="1">
<INPUT TYPE="HIDDEN" NAME="language" VALUE="RU">
<INPUT TYPE="HIDDEN" NAME="email" VALUE="test@test.by">
<INPUT TYPE="HIDDEN" NAME="orderComment" VALUE="Order payment 28-A">
<INPUT TYPE="HIDDEN" NAME="url_Return_Ok" VALUE="http://www.URL.by/yes">
<INPUT TYPE="HIDDEN" NAME="url_Return_No" VALUE="http://www.URL.by/no">
<INPUT TYPE="HIDDEN" NAME="cardPayment" VALUE="1">
<INPUT TYPE="SUBMIT" NAME="submit" VALUE="Buy">
</FORM>
```

After pressing this button, a customer is automatically redirected to IPS Assist payment pages, where he/she enters his/her personal data and the card information for the payment operation to be completed. The payment operation can be both successfully completed and failed. After successfully completing the payment operation in the enterprise's double-stage operation mode, the order adopts the status *Delayed* in IPS Assist (Payment confirmation in process); order statuses are listed in table " [OrderState field values](#) ".

At the second stage, after successfully completed payment operation, the enterprise performs the payment confirmation operation. A financial transaction is sent for processing only after the payment has been confirmed.



Attention! When the double-stage operation mode is used the customer's account is withdrawn only after the payment has been confirmed by Internet-shop.

Payment confirmation

Internet-shop can issue a financial confirmation within 2 days in [Personal account](#) , or using Web service.

To confirm the payment, send a request to IPS Assist server via HTTP POST or SOAP method (in UTF-8 coding).

The request URL for the financial confirmation transmission:

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

List of payment confirmation parameters for the enterprise's double-stage operation mode is given in table below:

Parameter	Mandatory field	Adopted values	Default values	Description
billNumber	Yes	15 or 16 digits, extended payment number		Unique number of payment corresponding to the order number in IPS Assist; extended payment number can be passed

merchant_Id	Yes	Number		The enterprise identifier in IPS Assist
login	Yes	20 characters		Login (Latin letters, digits and symbol _)
password	Yes	30 characters		Password (Latin letters and digits)
amount	No*	15 digits, two digits after the delimiter (delimiter '.')		The amount of financial confirmation
currency	No*	3 characters		Confirmation currency code. Only the currency code of the payment operation can be used.
clientIP	No			IP-address of the operator's computer that confirms the payment
language	No	RU – Russian EN – English	RU	Language of the results output
format	No	1 – CSV (delimited fields) 3 – XML 4 – SOAP 5 – JSON	1	Format of the results output. Format of the results output. If the request is sent in SOAP or in JSON format, then the response will also be in SOAP or in JSON respectively, in other cases, in accordance with the passed format value.
autoDeposit	No	1 – flag on 0 – flag off		Online deposit flag. It is used in cases when it is necessary to immediately unblock the unconfirmed part of the order amount.  Note It is necessary to find out whether the merchant can work with online deposit, please, contact the support service (support@belassist.by) for this.

* The parameters **amount** and **currency** can be passed or missed in the request only simultaneously. If the above parameters are missing, the full amount confirmation operation will be performed.



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

The confirmation can be performed to both the complete amount and a part of the amount. It is allowed to issue a partial confirmation of amount not exceeding the amount of payment, if the payment operation by bankcard was completed through processing with correspondent settings.



Please, note that confirmation amount should be provided (using both Personal account and Web service) in the same currency which was used in the payment operation (normally, in Roubles).

The parameter *billNumber* can be passed either in ordinary format (when there was only one successful payment on this order) or in extended format in the confirmation. While using the extended format it is required to provide the exact number of the successful authorization operation (in some cases it can be not a first operation in the order, 500000000000001.2 for example).

The payment confirmation operation is always successful, unless declined due to technical failure. In case of a technical failure, the payment should be confirmed again. The repeated payment confirmation does not result in a repeated cash withdrawal.

If the payment has been successfully confirmed, the order in IPS Assist adopts the status *Approved* or *PartialDelayed*, the *Response_code* is AS000.

The service description for SOAP format can be found on page:

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

The list of response parameters:

Parameter	Value
ordernumber	Order number
responsecode	Response code

recommen dation	Recommendations
message	Message
ordercom ment	Comment
orderdate	Date of order
amount	Operation amount
currency	Currency of operation
meantyp ename	Type of payment means
meannu mber	Number of payment means
lastname	Payer's last name
firstname	Payer's first name
middlena me	Payer's middle name
issuebank	Name of issue bank
Email	Payer's e-mail
bankcou ntry	Country of issue bank
rate	Currency rate
approval code	Authorization code
meansub type	Payment means subtype
cardhold er	Payment means holder
cardexpir ationdate	Card expired date
ipaddress	Payer's IP-address
protocoln ame	Protocol
testmode	Test mode
customer message	Result message for a customer
orderstate	Order state
processin gname	Processing
operation type	Operation type
billnumb er	Billnumber extended format
orderam ount	Original amount of operation
ordercurr ency	Original currency of operation
slipno	Financial transaction identifier

packetdate	Request issue date
signature	The X value without delimiters, signed with IPS Assist private key, encoded in BASE64, where X - <i>billnumber, ordernumber, responsecode, orderamount, ordercurrency, meannumber, approvalcode, orderstate, packetdate</i>

Examples

Request example for HTTP POST format:

```
<FORM ACTION="https://<SERVER-NAME>/charge/charge.cfm" METHOD="POST">
<INPUT TYPE="HIDDEN" NAME="billNumber" VALUE="545000000000001">
<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="amount" VALUE="100">
<INPUT TYPE="HIDDEN" NAME="currency" VALUE="BYN">
<INPUT TYPE="HIDDEN" NAME="language" VALUE="0">
<INPUT TYPE="HIDDEN" NAME="format" VALUE="3">
<INPUT TYPE="SUBMIT" NAME="submit" VALUE="Execute">
</FORM>
```

The result of payment financial confirmation request in CSV format:

```
ordernumber: 0001-01 responsecode: AS000 recommendation: message: Completed. ordercomment: test payment
orderdate: 01.01.2011 09:00:05 amount: 100.00 currency: BYN meantypename: VISA meannumber: 411111****1111
lastname: Testov firstname: Test middlename: Testovich issuebank: BANK email: test@testpost.by bankcountry:
Russia rate: 1 approvalcode: meansubtype: Corporate Purchasing Card cardholder: TEST cardexpirationdate:12/20
ipaddress: 111.23.11.23 protocoltypename: testmode: 1 customermmessage: Completed. orderstate: Approved
processingname: Name operationtype: 200 billnumber: 511111100000001.2 orderamount: 100.00 ordercurrency: RUB
slipno: 111111 packetdate: 01.01.2011 09:01:47 signature:
```

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 (orders?)>
<!--ELEMENT orders (order)>
<!--ELEMENT order (ordernumber?, responsecode?, recommendation?, message?, ordercomment?, orderdate?, amount?,
currency?, meantypename?, meannumber?, lastname?, firstname?, middlename?, issuebank?, email?, bankcountry?,
rate?, approvalcode?, meansubtype?, cardholder?, cardexpirationdate?, ipaddress?, protocoltypename?, testmode?,
customermmessage?, orderstate?, processingname?, operationtype?, billnumber?, orderamount?, ordercurrency?,
slipno?, packetdate?, signature?, pareq?, acsurl?)>
<!--ELEMENT ordernumber (#PCDATA)>
<!--ELEMENT responsecode (#PCDATA)>
<!--ELEMENT recommendation (#PCDATA)>
<!--ELEMENT message (#PCDATA)>
<!--ELEMENT ordercomment (#PCDATA)>
<!--ELEMENT orderdate (#PCDATA)>
<!--ELEMENT amount (#PCDATA)>
<!--ELEMENT currency (#PCDATA)>
<!--ELEMENT meantypename (#PCDATA)>
<!--ELEMENT meannumber (#PCDATA)>
<!--ELEMENT lastname (#PCDATA)>
<!--ELEMENT firstname (#PCDATA)>
<!--ELEMENT middlename (#PCDATA)>
<!--ELEMENT issuebank (#PCDATA)>
<!--ELEMENT email (#PCDATA)>
<!--ELEMENT bankcountry (#PCDATA)>
<!--ELEMENT rate (#PCDATA)>
<!--ELEMENT approvalcode (#PCDATA)>
<!--ELEMENT meansubtype (#PCDATA)>
```

```

<!ELEMENT cardholder (#PCDATA)>
<!ELEMENT cardexpirationdate (#PCDATA)>
<!ELEMENT ipaddress (#PCDATA)>
<!ELEMENT protocoltypename (#PCDATA)>
<!ELEMENT testmode (#PCDATA)>
<!ELEMENT customermessage (#PCDATA)>
<!ELEMENT orderstate (#PCDATA)>
<!ELEMENT processingname (#PCDATA)>
<!ELEMENT operationtype (#PCDATA)>
<!ELEMENT billnumber (#PCDATA)>
<!ELEMENT orderamount (#PCDATA)>
<!ELEMENT ordercurrency (#PCDATA)>
<!ELEMENT slipno (#PCDATA)>
<!ELEMENT packetdate (#PCDATA)>
<!ELEMENT signature (#PCDATA)>
<!ELEMENT pareq (#PCDATA)>
<!ELEMENT acsurl (#PCDATA)>]>
  <result firstcode="0" secondcode="0" count="1">
<orders> <order>
<ordernumber> 0001-01 </ordernumber>
<responsecode> AS000 </responsecode>
<recommendation> </recommendation>
<message> Completed. </message>
<ordercomment> test payment </ordercomment>
<orderdate> 06.07.2016 10:51:53 </orderdate>
<amount> 100.00 </amount>
<currency> BYN </currency>
<meantypename> VISA </meantypename>
<meannumber> 411111****1111 </meannumber>
<lastname> Testov </lastname>
<firstname> Test </firstname>
<middlename> Testovich </middlename>
<issuebank> BANK </issuebank>
<email> test@testpost.by </email>
<bankcountry> Russia </bankcountry>
<rate> 1 </rate>
<approvalcode> </approvalcode>
<meansubtype> Corporate Purchasing Card </meansubtype>
<cardholder> TEST </cardholder>
<cardexpirationdate> 12/20 </cardexpirationdate>
<ipaddress> 10.23.10.23 </ipaddress>
<protocoltypename> </protocoltypename>
<testmode> 1 </testmode>
<customermessage> Completed. </customermessage>
<orderstate> Approved </orderstate>
<processingname> Name </processingname>
<operationtype> 200 </operationtype>
<billnumber> 511111100000001.2 </billnumber>
<orderamount> 100.00 </orderamount>
<ordercurrency> BYN </ordercurrency>
<slipno>11111</slipno>
<packetdate> 06.07.2016 10:53:45 </packetdate>
<signature> </signature>
</order> </orders>
</result>

```

Six first and last four digits of the card number are returned as the field <cardnumber> value here and after in all Web services; the remaining figures being hidden under * symbol.

If the payment is successfully confirmed, the field " *orderstate* " will contain the value *Approved* or *PartialDelayed* , the confirmation operation response_code is AS000. If the payment confirmation is not confirmed, the response_code will adopt the values AS100-AS998.

If the payment confirmation request cannot be processed, the request will return non-zero values of the *firstcode*, *secondcode* parameters.

An example of a result request in XML format which returned an error (wrong password):

```
<?xml version="1.0" encoding="utf-8" standalone="yes" ?>
<!DOCTYPE result (View Source for full doctype...)>
<result firstcode="7" secondcode="102" count="0"></result>
```

For description of the first and second codes of the automated interfaces refer to table " [Error codes](#) ".

In SOAP format:

```
<?xml version='1.0' encoding='utf-8' standalone='no'?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV='http://schemas.xmlsoap.org/soap/envelope/' SOAP-ENV:
encodingStyle='http://schemas.xmlsoap.org/soap/encoding/' xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
xmlns:xsd='http://www.w3.org/2001/XMLSchema'>
<SOAP-ENV:Body SOAP-ENV:encodingStyle='http://schemas.xmlsoap.org/soap/encoding/'>
<ASS-NS:MakeChargeResponse xmlns:ASS-NS='http://www.paysecure.ru/message/'>
<return xmlns:si='http://www.paysecure.ru/type/' xsi:type='si:SOAPStruct'>
<ordernumber xsi:type='xsd:string'>0001-01</ordernumber>
<responsecode xsi:type='xsd:string'>AS000</responsecode>
<recommendation xsi:type='xsd:string'></recommendation>
<message xsi:type='xsd:string'>Completed.</message>
<ordercomment xsi:type='xsd:string'>test payment</ordercomment>
<orderdate xsi:type='xsd:string'>06.07.2016 11:23:13</orderdate>
<amount xsi:type='xsd:string'>100.00</amount>
<currency xsi:type='xsd:string'>BYN</currency>
<meantypename xsi:type='xsd:string'>VISA</meantypename>
<meannumber xsi:type='xsd:string'>411111****1111</meannumber>
<lastname xsi:type='xsd:string'>Testov</lastname>
<firstname xsi:type='xsd:string'>Test</firstname>
<middlename xsi:type='xsd:string'>Testovich</middlename>
<issuebank xsi:type='xsd:string'>New Bank</issuebank>
<email xsi:type='xsd:string'>test@testpost.by</email>
<bankcountry xsi:type='xsd:string'>Russia</bankcountry>
<rate xsi:type='xsd:string'>1</rate>
<approvalcode xsi:type='xsd:string'></approvalcode>
<meansubtype xsi:type='xsd:string'>Classic</meansubtype>
<cardholder xsi:type='xsd:string'>TEST</cardholder>
<cardexpirationdate xsi:type='xsd:string'>12/20</cardexpirationdate>
<ipaddress xsi:type='xsd:string'>11.23.11.23</ipaddress>
<protocoltypename xsi:type='xsd:string'></protocoltypename>
<testmode xsi:type='xsd:string'>1</testmode>
<customermessage xsi:type='xsd:string'>Completed.</customermessage>
<orderstate xsi:type='xsd:string'>Approved</orderstate>
<processingname xsi:type='xsd:string'>Name</processingname>
<operationtype xsi:type='xsd:string'>200</operationtype>
<billnumber xsi:type='xsd:string'>511111100000001.2</billnumber>
<orderamount xsi:type='xsd:string'>100.00</orderamount>
<ordercurrency xsi:type='xsd:string'>BYN</ordercurrency>
<slipno xsi:type='xsd:string'>111111</slipno>
<packetdate xsi:type='xsd:string'>06.07.2016 11:28:26</packetdate>
<signature xsi:type='xsd:string'></signature>
</return>
</ASS-NS:MakeChargeResponse></SOAP-ENV:Body> </SOAP-ENV: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.

