

TokenPay payment information transfer

To pay with a token, you need to send a request to the IPS Assist server in JSON format (swagger description: <https://docs.belassist.by/swagger/>).

The request URL for transfer the encrypted payment data block:

`https://<SERVER_NAME>/pay/tokenpay.cfm` ,

As `<SERVER_NAME>` you should use the received from support service value as the domain name.

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 in IPS Assist (Latin letters, digits and symbol _)
password	Yes	8-20 characters		Password in IPS Assist (Latin letters and digits)
orderNumber	Yes	128 characters		Order number in the merchant payments system
orderAmount	Yes	Number, 15 digits, two digits after the delimiter ('.')		Payment amount, in original currency (e.g., 10.34).  Attention! If you want to use the double-stage payment mechanism, you should first consult with the support service staff (support@belassist.by).
orderCurrency	No	3 characters	Currency of legal entity /enterprise	Code of currency of the <i>orderAmount</i>
orderComment	No	4000 characters		Comment.
delay	No	0 – one-stage operation 1 – double-stage operation	0	Attribute of a bankcard authorization for the double-stage operation mode.
language	No	RU – Russian, EN – English	Language of legal entity /enterprise	Language of authorized pages
clientIP	No	Maximum of 15 digits, 4 delimiters «.,»		IP-address of the customer.
tokenType	No	1 – Apple Pay; 2 – Google Pay; 3 – Samsung Pay; 5 – Assist.	1	Payment Token Type Identifier 5 - payment token Assist is used for CIT COF operations

paymentToken	Yes	JSON		For token types 1-3 - provider payment token (Apple Pay, Google Pay; Samsung Pay). For Assist payment token (token type 5) - {"Token": "<UUID>", "customerNumber": "<customerNumber>"}
lastName	No	70 characters		Customer's last name.
firstName	No	70 characters		Customer's first name.
middleName	No	70 characters		Customer's middle name.
email	No	128 characters		Customer's e-mail.
address	No	256 characters		Customer's address.
homePhone	No	64 characters		Customer's home phone number.
workPhone	No	20 characters		Customer's work phone number.
mobilePhone	No	20 characters		Customer's mobile phone number.
country	No	3 characters		Customer's country.
state	No	3 characters		Customer's region.
city	No	70 characters		Customer's city.
zip	No	25 characters		Customer's post zip code.
url_Return	No	256 characters		Page URL, to where a customer should return after performing his/her payment in the system (option " <i>Go to the shop page</i> " should be enabled in merchant's settings in Personal account). It is recommended to use HTTPS protocol for secure communication.
url_Return_Ok	No	256 characters	<i>url_Return</i> parameter value, or, if none, return URL parameter after successful authorization, specified in Personal account	Page URL, to where a customer should return after successful performing his/her payment in IPS Assist (option " <i>Go to the shop page</i> " should be enabled in merchant's settings in Personal account). It is recommended to use HTTPS protocol for secure communication.
url_Return_No	No	256 characters	<i>url_Return</i> parameter value, or, if none, return URL specified in Personal account	Page URL, to where a customer should return if the payment is not performed in IPS Assist or payment is still in progress (current payment status " <i>In Progress</i> "), see details . The option " <i>Go to the shop using return URL</i> " should be enabled in merchant's settings in Personal account. It is recommended to use HTTPS protocol for secure communication.
isConvert	No	0 – do not convert to the base currency 1 - do not convert to the base currency if possible 2 – always convert to the base currency	1	Currency conversion indicator
format	No	4 – SOAP 5 – JSON	5	Results format.

signature	No	String		The string is joined from the following order parameters: Merchant_ID;OrderNumber;OrderAmount;OrderCurrency with semicolon as delimiter. Then the MD5 hash prepared from this string. Hash is signed by private RSA key of the merchant. Key length - 1024. Received bit sequence is a signature. Signature is transferred BASE64 coded string.  Attention! The parameter is necessary in order to protect the transmitted data from the possibility of their substitution by intruders. You should also enable the setting for check value or signature in the Personal account.
recurringIndicator	No	1 – recurring payment 0 – standard payment	0	Recurring payment indicator
recurringMinAmount	No / Yes	Number, 15 digits, two digits after the delimiter (delimiter '.')		Minimum payment amount for recurring payments Mandatory when <i>recurringIndicator</i> = 1.
recurringMaxAmount	No / Yes	Number, 15 digits, two digits after the delimiter (delimiter '.')		Maximum payment amount for recurring payments Mandatory when <i>recurringIndicator</i> = 1.
recurringPeriod	No / Yes	10 digits number		Recurring interval in days Mandatory when <i>recurringIndicator</i> = 1.
recurringMaxDate	No / Yes	Date in string representation DD.MM.YYYY		Finish date of recurring payments Mandatory when <i>recurringIndicator</i> = 1.

The list of response parameters:

Name	Description
Order parameters	
ordernumber	Order number
billnumber	Unique order number in IPS Assist
testmode	Test mode
ordercomment	Comment
orderamount	Original amount of order
ordercurrency	Original currency of order
firstname	Payer's first name
lastname	Payer's last name
middle name	Payer's middle name

Email	Payer's e-mail
orderdate	Date of order (GMT)
orderstate	Order status
packetdate	Request issue date (GMT)
signature	- For signature type 'MD5' - empty - For signature type 'PGP' – value X signed by secured key of IPS Assist, BASE64 encoded
checksum	$uppercase(md5(uppercase(md5(SALT) + md5(X))))$, where <i>SALT</i> – secret word ; X – result of the following parameters string concatenation <i>merchant_id</i> , <i>ordernumber</i> , <i>orderamount</i> , <i>ordercurrency</i> , <i>orderstate</i> (without delimiters) + means string concatenation
Operation parameters	
billnumber	Extended format of Billnumber: billnumber.<operation number>
operationtype	Operation type
operationstate	Operation status
amount	Operation amount
currency	Currency of operation
ipaddress	Payer's IP-address
clientip	Client's IP-address
paymenttype_id	Payment means ID
paymenttype_name	Type of payment means
paymentsubtype	Payment means subtype
paymentnumber	Number of payment means
cardholder	Payment means holder
issuingbank	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

protocoltype name	Protocol
processing name	Processing name
operation date	Operation date and time(GMT)
authorization result	3Ds authorization result (Y – success, N - fail, A - Attempt, U – unknown)
authorization required	The card involvement in 3Ds check result (1 – involved, 0 – not involved, -1 – unknown, null – error appear during involvement check)
slipno	Financial transaction identifier
firstcode ₁	The first code of automated interfaces error
secondcode ₁	The second code of automated interfaces error
continueurl ₂	The address to redirect to the authentication page for the buyer

¹The parameters *firstcode* and *secondcode* take the values "3" and "115", respectively, when a CVC2 enter is required; and if additional 3D-Secure authentication is required without entering a CVC2, the values of these parameters are "0"; the response code AS110 is given also in this case.

²The parameter is given only if CVC2 enter or additional 3D-Secure authentication is required, in which case the buyer should be redirected to the *continueurl* page to continue payment.

 **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.

An example of a request result in JSON format if the customer used a tokenized card:

```

{"order":[
{
  "ordernumber":"26012015_4"
  ,"billnumber":"5899110210668265"
  ,"testmode":"0"
  ,"ordercomment":"test payment"
  ,"orderamount":"24.00"
  ,"ordercurrency":"BYN"
  ,"firstname":""
  ,"lastname":""
  ,"middlename":""
  ,"email":""
  ,"orderdate":"26.01.2015 17:25:39"
  ,"orderstate":"In Process"
  ,"fraud_state":""
  ,"fraud_reason":""
  ,"checkvalue":"85C6C974AADC1CADFCFD195730ED090B"
  ,"operations":[
{"billnumber":"5899110210668265.1"
,"operationtype":"100"
,"operationstate":"In Process"
,"amount":"24.00"
,"currency":"BYN"
,"clientip":"10.20.10.85"
,"ipaddress":"0.0.0.0"
,"meantype_id":"61"
,"meantypename":"SamsungPay"
,"meansubtype":""
,"meannumber":""
,"cardholder":""
,"issuebank":"UNKNOWN"
,"bankcountry":"UNKNOWN"
,"responsecode":"AS200"
,"message":""
,"customermessage":""
,"recommendation":""
,"approvalcode":""
,"protocoltypename":"NET"
,"processingname":""
,"operationdate":"26.01.2015 17:25:39"
,"authresult":""
,"authrequired":""
,"slipno":""}
]
}
],
"packetdate":"26.01.2015 18:16:19"
}

```

An example of a request result in JSON format if the customer used a non-tokenized card:

```

{"order":[
{
  "ordernumber":"2019.07.01-1226",
  "billnumber":"516009019047110",
  "testmode":"0",
  "ordercomment":"Test 4 mode",
  "orderamount":"101.45",
  "ordercurrency":"BYN",
  "firstname":"",
  "lastname":"",
  "middlename":"",
  "email":"",
  "orderdate":"01.07.2019 15:31:16",
  "orderstate":"In Process",
  "fraud_state":"",
  "fraud_reason":""
  "checkvalue":"85C6C974AAD1CADFCFD195730ED090B"
  "operations":[
    {"billnumber":"516009019047110.1",
      "operationtype":"100",
      "operationstate":"New",
      "amount":"101.45",
      "currency":"BYN",
      "clientip":"10.20.10.66",
      "ipaddress":"127.0.0.1",
      "meantype_id":"1",
      "meantypename":"VISA",
      "meansubtype":"Classic",
      "meannumber":"411111****1111",
      "cardholder":"N/A",
      "cardexpirationdate":"12/24",
      "issuebank":"BANK",
      "bankcountry":"",
      "responsecode":"AS300",
      "message":"",
      "customermessage":"", "
      "recommendation":"",
      "approvalcode":"",
      "protocoltypename":"NET",
      "processingname":"NAME",
      "operationdate":"01.07.2019 15:31:18",
      "authresult":"",
      "authrequired":"",
      "slipno":""}
  ]
},
{
  "packetdate":"26.01.2015 18:16:19",
  "firstcode":"3",
  "secondcode":"115",
  "continueurl":"https://<SERVER_NAME>/pay/pay.cfm?CFSID=LiRNMzMisFc3WyoNWFdaQCJYTiQgCg%3D%3D"
}
]
}

```

In case of successful payment the return code *responsecode* is equal to AS000 value.

In case of unsuccessful payment the *responsecode* is one of AS100-AS998 values (except AS110 code that is returned when 3-D Secure authorization required).

If the request can't be processed the *firstcode* and *secondcode* parameters have non-zero values.

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