

Payment request

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List of the authorized request parameters

URL of the authorization request is <https://<SERVER-NAME>/pay/order.cfm>

The full list of the authorized request parameters is given in table below:

Parameter	Mandatory field	Adopted values	Default value	Description
merchant_Id	Yes	Number		The enterprise identifier in IPS Assist
orderNumber	Yes	128 characters		Order number in the enterprise payments system
delay	No	0 – one-stage operation 1 – double-stage operation	0	Attribute of a bankcard authorization for the double-stage operation  If you want to use the double-stage payment mechanism, you should first consult with the support service staff (support@belassist.by).
language	No	RU – Russian, EN – English	Language of legal entity /enterprise	Language of authorization pages
orderComment	No	4000 characters		Comment
orderAmount	Yes	Number, 15 digits, two digits after the delimiter (delimiter '.')		Payment amount, in original currency (e.g., 10.34)
orderCurrency	No	3 characters	Currency of legal entity /enterprise	Code of currency of the <i>orderAmount</i> .
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
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 "Go to the shop page" 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	Url_Return 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 "Go to the shop page" 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	Url_Return 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 "In Progress"), see details . The option "Go to the shop using return URL" should be enabled in merchant's settings in Personal account. It is recommended to use HTTPS protocol for secure communication.
cardPayment	No	1 – payment with using bankcard; 0 – without using bankcard	1	A customer can perform his/her payment using bankcard, if parameter value 1 has been sent, or the parameter is missing (and bankcard payments are enable for the enterprise).
eripPayment	No	1 – payment with using ERIP; 0 – without using ERIP	1	A customer can perform his/her payment using ERIP, if parameter value 1 has been sent, or the parameter is missing (and ERIP payments are enable for the enterprise).
epoSPayment	No	1 – use E-POS payment, 0 – without E-POS	1	A customer can perform his/her E-POS payment, if parameter value 1 has been sent, or the parameter is missing (and E-POS payments are enable for the merchant)
kroKPayment	No	1; 0	1	A customer can perform his/her payment using the KROKe, if parameter value 1 has been sent and payments via KROK are enable for the merchant.
googlePayPayment	No	1; 0	0	Payment via Google Pay attribute (=1)
applePayPayment	No	1; 0	0	Payment via ApplePay attribute (=1)
samsungPayPayment	No	1; 0	0	Payment via SamsungPay attribute (=1)
signature	No*	String		The string is joined according the determined rules. Then the MD5 hash is prepared from this string. Hash is signed by private RSA key of the merchant. Key length is 1024. Received bit sequence is a signature. Signature is transferred as 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.

checkValue	No*	String		Request validation code. The string has to be generated as follows: uppercase(md5(uppercase(md5(SALT) + md5(X)))), where SALT – secret word; X – the string joined according the determined rules. Note. If the merchant uses request validation code without delimiters, please, contact the support team support@belassist.by.  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 – recurrent payment 0 – nonrecurrent payment	0	Recurring payment indicator.
recurringMinAmount	No / Yes	Number, 15 digits, two digits after the delimiter (delimiter '.')		Min amount of recurrent payments. Mandatory if <i>recurringIndicator</i> = 1
recurringMaxAmount	No / Yes	Number, 15 digits, two digits after the delimiter (delimiter '.')		Max Amount of recurrent payments. Mandatory if <i>recurringIndicator</i> = 1
recurringPeriod	No / Yes	Number, 3 digits		Frequency of recurrent payments in days. Mandatory if <i>recurringIndicator</i> = 1
recurringMaxDate	No / Yes	Date as string in DD.MM.YYYY format		The end date of recurrent payments. Mandatory if <i>recurringIndicator</i> = 1

* In order to protect the transmitted data from the possibility of their substitution by intruders, one of the parameters (*signature* или *checkValue*) must be passed, and the [setting](#) for the check value (or signature) in the Personal account must also be enabled.



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

If more than one parameter specifying the type of [payment means](#) (cardPayment etc.) has value 1, a customer can choose a method of payment on the payments page of IPS Assist. If these parameters are not sent, a user can also select a method of payment on IPS Assist payment page from all those available for this enterprise. If all these parameters have the value 0, then it results to error.

An example of a button with all necessary parameters:

```
<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="0">
<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 redirected to the authorized pages of IPS Assist, where he/she can enter the other personal data and perform payments using his/her bankcard. The information, such as a customer's first name, second name and e-mail are mandatory (the parameters *firstName*, *lastName*, *email*) and should be either send in the authorized request, or entered on the payment page.

Please, note that the original amount and the currency code send by the enterprise in the payment parameters, when redirecting a customer to the authorization pages of IPS Assist, can differ from the authorization amount and currency. The authorization amount and currency are the amount and currency, which were sent to Processing Center for the bankcard authorization (the amount is normally in Belarussian Rubles). For example, if the payment original amount is 100 USD, then the authorization amount made, for example with rate 1 USD=1,9608 BYN, equals to 196,08 BYN.

After successful payment, the order in IPS Assist adopts the status *Approved*; all possible order statuses see "[OrderState field values](#)".

Customer's return to Internet shop page after purchase

After performing payment in IPS Assist a customer can see the page with the information of the payment results (for example, "*Completed*"), as well as the payment, customer and enterprise data.

You can also set up a customer's automatic redirecting to the enterprise web site after performing the payment in IPS Assist. For this, after the authorization select the action "*Go to the shop's page*" in Personal account in the section "*Merchants settings*", tab "*Payments settings*". If the authorization is successful, a customer is redirected to the address that you specified in the parameter *url_Return_Ok*. In the other cases a customer is redirected to the address specified in the parameter *url_Return* or *url_Return_No*. However, during the authorization by bankcard this address is supplemented with the parameters *billNumber* (complete unique order number in IPS Assist) and *orderNumber* (order number in the enterprise payments system) corresponding to the given payment, in the following format:

```
http://URL_return/?billnumber=complete_unique_order_number&ordernumber=order_number
```

If the parameters *url_Return_Ok* and *url_Return_No* are not sent in the authorization request, then *url_Return* parameter value is used for a customer's automatic redirection. If this parameter is also not sent, then the return *url_Return_Ok* and URL specified in "*Merchant's settings*" section in Personal account are used.



When customer returns to the merchant site the value of the order number is always transmitted as URL-encoded string: all non alpha-numeric characters (except '-' and '_') are replaced by the percent sign '%' followed by two digits hex code; spaces are replaced by '+' sign. This is important when the order number contains characters of non latin alphabet or some special symbols.

When using the option of a customer's return to the shop, it is recommended to send an additional request about the authorization result to IPS Assist server after receiving data about the paid order at *url_Return_Ok* (see [details](#)) in order to make sure the order payments have been performed. It is recommended as well to send an additional request about the authorization result to IPS Assist server after receiving data about the paid order at *url_Return* and *url_Return_No*, because a customer is redirected to these addresses with different payment state, including the state "*In process*".

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