

# Request for payment using Apple Pay (payment.do)

The request used for registering an order is «payment.do» (see below).
<a href="https://3dsec.sberbank.ru/payment/applepay/payment.do">https://3dsec.sberbank.ru/payment/applepay/payment.do</a>

Use the standard requests to the payment gateway for the operations of reversal, refund and payment completion.

In this document, the following data type conventions are used when describing request and response parameters:

- A<n> - a sequence of Latin letters of length <n>;
- A..<n> - a sequence of Latin letters with a length not exceeding <n>;
- N<n> - a sequence of digits of length <n>;
- N..<n> - a sequence of digits with a length not exceeding <n>;
- AN<n> - a sequence of Latin letters and numbers of fixed length <n>;
- AN.. <n> - a sequence of Latin letters and numbers with a length not exceeding <n>;
- ANS<n> - a sequence of Latin letters, numbers and characters of fixed length <n>
- ANS.. <n> - a sequence of Latin letters, numbers and characters with a length not exceeding <n>;
- UTC - date and time, in this case: the date must be passed without specifying the time zone, Moscow time, for the SOAP protocol, the standard encoding xs: dateTime is used.

## Request parameters

The request parameters are given in table below.

It is necessary to add to the request a header with the definition of the type of contents - «Content-Type: application/json» to ensure that the request is processed correctly.

Name	Type	Mandatory	Description
merchant	AN..255	Yes	Merchant login in the payment gateway.
orderNumber	ANS..32	Yes	Number (identifier) of the order in the store system. It is unique for every store within the Payment Gateway. If the order number is generated on the Payment Gateway side, this parameter is not mandatory.
description	ANS..512	No	Description of the order in free form. To enable sending this field to the processing system, contact the technical support service.
language	A2	No	Language in the ISO 639-1 encoding. If the language is not specified, the default language defined in the store settings is used.
clientID	ANS..255	No	Identifier of the Customer in the Store system. Used to implement the functionality of bindings.

Name	Type	Mandatory	Description
additionalParameters	Not applicable	No	<p>Additional parameters of the order that are stored in the merchant personal account for the subsequent viewing. Additional parameters must be specified in the following format.  «parameter_name»: «parameter_value»  Each new pair of a parameter name and its value must be separated by a comma.  If the merchant has fiscalization set up, when indicating email (the buyer's email address) and/or phone (the buyer's cell phone number) as additional parameters, these parameters are first used to send the fiscal receipt.  It is forbidden to pass reserved names in the parameter (if they are passed, the order may be rejected):</p> <ul style="list-style-type: none"> <li>• sbrf_spasibo:amount_bonus</li> <li>• sbrf_sbermiles:amount_bonus</li> <li>• loyaltyId</li> </ul>
preAuth	A..5	No	<p>Parameter that defines the necessity of a pre-authorization (putting the amount on hold on the customer's account until its debiting). The following values are available:</p> <ul style="list-style-type: none"> <li>• true - the parameter is enabled, a two-phase payment is made;</li> <li>• false - the parameter is disabled, a one-phase payment is made (funds are debited immediately).</li> </ul> <p>If the parameter is not specified in the request, a one-phase payment occurs.  Two-phase payments functionality is available if specifically requested by Merchant from the bank.  This parameter can be passed either as a boolean value (without quotation marks) or as a string (with quotation marks).</p>

Name	Type	Mandatory	Description
paymentToken	AN..8192	Yes	The paymentToken parameter must contain a Base64 encoded value of the paymentData property that was received in PKPaymentToken Object from the Apple Pay system (see <a href="#">Apple Pay documentation</a> ). Thus, to send a payment request to the payment gateway, the merchant must: <ol style="list-style-type: none"> <li>1. Receive from the Apple Pay system the PKPaymentToken Object object containing the paymentData property;</li> <li>2. Extract the value of the paymentData property and encode it in Base64;</li> <li>3. Include the encoded value of the paymentData property as the value of the paymentToken parameter in the payment request that the merchant sends to the payment gateway.</li> </ol>
dynamicCallbackUrl	ANS..512	No	This parameter enables dynamic callback functionality. In it, you can pass the address to which all «payment» callback notifications activated for the merchant will be sent. Payment-related notifications are callback notifications about the following events: successful hold, payment rejected by timeout, cardpresent payment rejected, successful debiting, refund, reversal. Notably, payment-unrelated callbacks that are active for the Merchant (enabling/disabling a binding, binding creation) will be sent to static callback URL.

## Response parameters

The response parameters are given in table below.

Name	Type	Mandatory	Description
success	A..5	Yes	Designates a successful request. The following values are available: <ul style="list-style-type: none"> <li>• true - request is processed successfully;</li> <li>• false - request failed.</li> </ul>
data block (returned only if the request was successful)			
orderId	ANS36	Yes	Identifier of the order in the payment system. It is unique within the system. Missing if order registration failed due to an error detailed in ErrorCode.
error block (returned only if the request resulted in an error)			
code	N3	Yes	Error code.

Name	Type	Mandatory	Description
description	ANS..512	Yes	A detailed technical explanation of the error – the contents of this parameter is not to be displayed to the customer.
message	AN..512	Yes	Comprehensive error description – it is intended for displaying to the user.
The OrderStatus element contains order status parameters and is returned only if the payment gateway recognized all request parameters as correct. See the list of nested parameters below.			
errorCode	ANS..3	No	Error code. Can be missing if the result has not caused an error. See <a href="#">description of error codes</a> on this page.
orderNumber	ANS..32	No	Number (identifier) of the order in the store system. It is unique for every store within the Payment Gateway. If the order number is generated on the Payment Gateway side, this parameter is not mandatory.
orderStatus	N1	No	The order status in the payment system is defined by the value of this parameter. It is missing if the order has not been found. The following values are available: <ul style="list-style-type: none"> <li>• 0 – order is registered but unpaid;</li> <li>• 1 – the preauthorized amount is held (for two-phase payments);</li> <li>• 2 – full authorization of the order amount was carried out;</li> <li>• 3 – authorization is canceled;</li> <li>• 4 – a refund operation was performed for the transaction;</li> <li>• 5 – authorization via ACS of the issuing bank was initiated;</li> <li>• 6 – authorization is declined.</li> </ul>
actionCode	N..5	No	Processing code Full <a href="#">list of processing response codes</a> and description of these codes is available on a separate page.
actionCodeDescription	AN..512	No	Description of the response code in the language that is passed in language parameter of the request.
amount	N..12	No	Payment amount in minimum currency units.
currency	N3	No	ISO 4217 code of the payment currency. If not specified, default value is used.
date	ANS	No	Date of order registration in Unix-time format (POSIX-time).
ip	ANS..39	No	IP-address of the buyer. IPv6 is supported in all requests (up to 39 characters).
merchantOrderParams element			

Name	Type	Mandatory	Description
<b>Name</b> name <b>Type</b> AN..20 <b>Type2</b> ANS..255 <b>Type3</b> A7 <b>Type4</b> ANS..100 <b>Description</b> <b>REST</b> Name of the additional parameter. <b>REST Online Lending</b> The attribute name, always takes the value of mdOrder. <b>WS</b> Name of the additional parameter. <b>Spasibo</b> Name or the description of an item in any format. <b>Spasibo2</b> Name of the parameter describing the details of a line item	AN..20	No	Name of the additional parameter.
value	AN..1024	No	The value of the additional parameter is up to 1024 characters.
attributes element			
name	A7	No	Name of the additional parameter.
value	AN..1024	No	The value of the additional parameter is up to 1024 characters.
cardAuthInfo element			
pan	N12...19	No	Masked number of the card that has been used for the payment. This parameter is to be specified only after the order has been paid. In the case of payment via Apple Pay, DPAN is used as the card number: a number associated with the buyer's mobile device and acting as a payment card number in the Apple Pay system.
expiration	ANS	No	Expiry date of the card in the format <b>YYYYMM</b> .
cardholderName	A..200	No	Cardholder's name in Latin characters, if available.

Name	Type	Mandatory	Description
approvalCode	AN6	No	International payment system authorization code. This field has a fixed length (six characters) and can contain digits and Latin letters.
authDateTime	ANS	No	Authorization date and time in Unix time (POSIX time).
terminalId	AN..10	No	Identifier of the terminal in processing through which the payment was made.
authRefNum	AN..24	No	Registration number of the payment authorization that has been assigned to it on the payment registration.
paymentAmountInfo element			
approvedAmount	N..12	No	Amount confirmed to be debited.
depositedAmount	N..12	No	The amount in the minimum currency units (for example, in kopecks), confirmed to be debited from the card.
refundedAmount	N..12	No	The refund amount in minimum currency units.
paymentState	A..10	No	Payment status.
totalAmount	N..12	No	Order amount + fee (if applicable to the order).
The bankInfo element contains the following parameters.			
bankCountryName	AN..160	No	Name of the country of the issuing bank passed in the language parameter of the request or in the language of the user who has called the method if the language has not been specified in the request.

## Error codes from the error parameter

Error code	Error text
1	The funds on the card are not sufficient.
4	Invalid parameter value [paymentToken.signature], the check failed.
10	Invalid parameter value [merchant].
10	Invalid parameter value [orderNumber].
10	Invalid parameter value [paymentToken].
10	Invalid parameter value [paymentToken.version].
10	Invalid parameter value [paymentToken.header].
10	Invalid parameter value [paymentToken.signature].
10	Invalid parameter value [paymentToken.header.transactionId].
10	Invalid parameter value [paymentToken.header.wrappedKey].
10	Invalid parameter value [paymentToken.header.publicKeyHash].
10	Authorization is invalid.

## Error codes from parameter errorCode

Error code	Error text
1	Expected [orderId] or [orderNumber].



```
3YkdVZ1NXNWpMakVMTUFrR0ExVUVCaE1DVLZNd1dUQVRCZ2NxaGtqT1BRSUJCZ2dxaGtqT1BRTUJ
Cd05DQUFUd0Z4R0VHZGRraGRVYVhpV0JCM2JvZ0tMdjNudXVUZUN0L0V1VDRUTlCxV1piTmE0aTB
KZDJEU0pPZTdvSS9YwVh6b2pMZHJ0bWNMN0k2Q21FLzFSRm80SDNNSUgwTUVZR0NDc0dBUVVGQnd
FQkJEb3dPREEyQmdnckJnRUZCUWN3QVLZcWFIUjBjRG92TDI5amMzQXVZWEJ3YkdVdVky0XRMMjL
qYzNBd05DMWhjSEJzWlHkdmIzUmpZV2N6TUIwR0ExVWREZ1FXQkJRajhrbkVUNVBrN3lmbXhQWw9
iRCtpdS8wdVN6QVBCZ05WSFJNQkFm0EVCVEFEQVFIL01C0EdBMVvKsXdRWU1CYUFGTHV3M3FGWU0
0aWfWsxFaM3I20TY2L2F5eVNYtURjR0ExVWRIId1F3TUM0d0xLQXFvQ2LHSm1oMGRIQTZMeTlqY21
3dVLYQndiR1V1WTI5dEwyRndjR3hsY205dmRHTmhaek11WTNKc01BNEdBmVvKRHdFQi93UUVBd0L
CQmpBUUJnb3Foa2lH0TJ0a0JnSU9CQUlGQURBS0JnZ3Foa2pPUFFRREFnTm5BREJrQWpBNnozS0R
VUmFac1liN05jTld5bUsv0UJmdDJR0TFUYUtPdnZHY2dWNUN0NG40bVBLyldaK1kxVUV0ajUzcHd
2NENNREL0MVVRaHNLtUZkMnhk0HpnN2tHZjLGM3dzSVcyV1Q4WnlhWUlTYjFUNGvUMGJtY3ViQ1l
raFlRYVpEd21TSFFBQU1ZSUJYekNDQVZzQ0FRRXdnWVl3ZwPfdU1Dd0dBMVVFQX3bFFYQndiR1V
nUVhCd2JHbGpZWfJwYjI0Z1NXNTBaV2R5WWhScGIyNGdRMEVnTFNCSE16RW1NQ1FHQTFVRUN3d2R
RWEJ3YkdVZ1EyVnlkR2xtYVd0aGRHbHZiaUJCZFhSb2IzSnBkSGt4RXpBUkJnTLZCQW9NQ2tGd2N
HeGxJRwX1Wxk0eEN6QUpCZ05WQkFZVEFsVlRBZ2hvwVBhWjJjew5EekF0QmdsZ2hrZ0JaUU1FQWd
FRkFLQnBNQmdHQ1NxR1NJYjNEUUVKQXpFTEJna3Foa2lH0XcwQkJ3RXdIQVlKS29aSWh2Y05BUWt
GTVE4WERURtJNVEV3TVRBNU5UY3d0bG93THdZSktvWklodmN0QVFrRU1TSUVJQWpSdk9nWkxDa0w
5ZmNCZjd0Sm5RY3hsd2ltL09ieHkrceLtz1M0TGRUYU1Bb0dDQ3FHU0000UJBTUNCRWN3UlFJZ1B
KaHlKtXE5UDdTaHJFT2RxVx5KUK84QnN1MC93SXNCS0Y1cnlFR0JPSDRDSVFEeW04Wml3VVV5aLR
JUFRUZDBKTTlaMEXIdGZTQVh0WVN2T0t4eGN3MTlod0FBQUFBQUFBPT0iLCJoZWfKZXIi0nsiZXB
oZW1lcmFsUHVibGljS2V5IjoitUZrd0V3WUhLb1pJemowQ0FRWUllb1pJemowREFRY0RRZ0FFNUd
mb2t2U2Z3WnV3aXYwSGxKVE1MS0dlMS96dWtjejczSFlvVjh5cjNGNWdmZmthVmNQtmptNjFhdFN
0Zm9UZUxiSnQ1aHBLWkjuSwlwZlVXSXZxMmc9PSIsInB1YmXpY0tleUhhc2gi0iJLMG9KcmJiYUR
VUDh6YitSUEZhTmxVUTdTU2I3T1FEWERVeU9vM0JXdDZjPSIsInRyYW5zYWN0aW9uSWQ10iIyYTN
kZjhjNDg0Y2JmMDg1OTgyN2Y0ZDBkZjhkYjY4YjYyNjBlNTIxYWUwZmI4YjI1NDRmNzNiM2RlMDV
lYjE5In19",
  "language": "ru",
  "additionalParameters": {},
  "preAuth": "true"
}
```

## Пример ответа

### Successful payment

```
{
  "success": true,
  "data": {
    "orderId": "b926351f-a634-49cf-9484-ccb0a3b8cfad"
  },
  "orderStatus": {
    "errorCode": "0",
    "orderNumber": "229",
    "orderStatus": 1,
    "actionCode": 0,
    "actionCodeDescription": "",
    "amount": 960000,
    "currency": "643",
    "date": 1478682458102,
```

```
"ip": "81.18.144.51",
"merchantOrderParams": [
  {
    "name": "param2",
    "value": "param2"
  },
  {
    "name": "param1",
    "value": "param1"
  }
],
"attributes": [
  {
    "name": "mdOrder",
    "value": "b926351f-a634-49cf-9484-ccb0a3b8cfad"
  }
],
"cardAuthInfo": {
  "expiration": "201907",
  "cardholderName": "CARD HOLDER",
  "approvalCode": "123456",
  "pan": "520424**0010"
},
"authDateTime": 1478682459082,
"terminalId": "12345678",
"authRefNum": "111111111111",
"paymentAmountInfo": {
  "paymentState": "APPROVED",
  "approvedAmount": 960000,
  "depositedAmount": 0,
  "refundedAmount": 0
},
"bankInfo": {
  "bankCountryName": "<UNKNOWN>"
}
}
```

## Failed payment

```
{
  "error": {
    "code": 10,
    "description": "Processing Error",
    "message": "Authorization is invalid"
  },
  "success": false
}
```