

Request for payment using Apple Pay (applePay)

The request used for payment via Apple Pay is applePay.

Use the following URL to connect to the Test Service (WSDL):

<https://3dsec.sberbank.ru/payment/webservices/merchant-ws?wsdl>.

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.

Name	Type	Mandatory	Description
merchant	AN..255	Yes	Merchant login in the payment gateway.
orderNumber	ANS..32	Yes	The number (identifier) of the order in the store system is unique for each store within the system – up to 30 characters. 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 any format. Only the first 24 characters of this field are transferred to Sberbank's processing for inclusion in the merchant's financial statements. To enable sending this field to the processing system, contact the technical support service.

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 Apple Pay documentation). Thus, to send a payment request to the payment gateway, the merchant must: 1. Receive from the Apple Pay system the PKPaymentToken Object object containing the paymentData property; 2. Extract the value of the paymentData property and encode it in Base64; 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.
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	Additional parameters of the order that are stored in the merchant personal account for the subsequent viewing. For each additional parameter, use the entry block which includes the following nested parameters.									
			<table><tr><th>Name</th><th>Type</th><th>Description</th></tr><tr><td>key</td><td>String</td><td>The name of the optional parameter.</td></tr><tr><td>value</td><td>AN..1024</td><td>The value of the additional parameter is up to 1024 characters.</td></tr></table>	Name	Type	Description	key	String	The name of the optional parameter.	value	AN..1024	The value of the additional parameter is up to 1024 characters.
			Name	Type	Description							
			key	String	The name of the optional parameter.							
			value	AN..1024	The value of the additional parameter is up to 1024 characters.							
Below is an example of how to use this parameter.												
<pre><entry> <key>parameter_1</key> <value>value_1</value> </entry> <entry> <key>parameter_2</key> <value>value_2</value> </entry></pre>												
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): - sbrf_spasibo:amount_bonus - sbrf_sbermiles:amount_bonus - loyaltyId												

Name	Type	Mandatory	Description
preAuth	A..5	No	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: • <code>true</code> - the parameter is enabled, a two-phase payment is made; • <code>false</code> - the parameter is disabled, a one-phase payment is made (funds are debited immediately). 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).
ip	ANS..39	No	IP-address of the buyer. IPv6 is supported in all requests (up to 39 characters).
billingPayerData	See description	No	Customer's registration data (street address, postal code). Required for AVS/AVV checks. Mandatory if «AVS/AVV use allowed» permission is enabled for merchant
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.

billingPayerData

billingPayerData block parameters

Name	Type	Mandatory	Description
billingCity	AN..50	No	City registered for the card at the Issuer Bank.
billingCountry	AN..50	No	
billingAddressLine1	AN..50	No	Address registered for the card at the Issuer Bank. Line 1. Mandatory if «AVS/AVV use allowed» permission is enabled for merchant.
billingAddressLine2	AN..50	No	Address registered for the card at the Issuer Bank. Line 2.

Name	Type	Mandatory	Description
billingAddressLine3	AN..50	No	Address registered for the card at the Issuer Bank. Line 3.
billingPostalCode	AN..50	No	Postal code registered for the card at the Issuer Bank. Mandatory if «AVS/AVV use allowed» permission is enabled for merchant.
billingState	AN..50	No	State registered for the card at the Issuer Bank (ISO 3166-2).

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: • true - request is processed successfully; • false - request failed.
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. The identifier is missing if the 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.
description	ANS..512	Yes	A detailed technical explanation of the error - the contents of this parameter is not to be displayed to the customer.
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. See description of error codes on this page.
orderNumber	ANS..32	Yes	The number (identifier) of the order in the store system is unique for each store within the system - up to 30 characters. If the order number is generated on the Payment Gateway side, this parameter is not mandatory.

Name	Type	Mandatory	Description
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: • 0 – order is registered but unpaid; • 1 – the preauthorized amount is held (for two-phase payments); • 2 – full authorization of the order amount was carried out; • 3 – authorization is canceled; • 4 – a refund operation was performed for the transaction; • 5 – authorization via ACS of the issuing bank was initiated; • 6 – authorization is declined.
actionCode	N..5	Yes	Processing code Full list of processing response codes and description of these codes is available on a separate page.
actionCodeDescription	AN..512	Yes	Description of actionCode returned by processing. Full list of processing response codes and description of these codes is available on a separate page.
amount	N..12	Yes	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	Yes	Date of order registration in Unix-time format (POSIX-time).
ip	ANS..39	Yes	IP-address of the buyer. IPv6 is supported in all requests (up to 39 characters).
merchantOrderParams element			

Name	Type	Mandatory	Description
Name name Type AN..20 Type2 ANS..255 Type3 A7 Type4 ANS..100 Description REST Name of the additional parameter. REST Online Lending The attribute name, always takes the value of mdOrder. WS Name of the additional parameter. Spasibo Name or the description of an item in any format. Spasibo2 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 YYYYMM .
cardholderName	A..200	No	Cardholder's name in Latin characters, if available.
approvalCode	AN6	No	International payment system authorization code. This field has a fixed length (six characters) and can contain digits and Latin letters.

Name	Type	Mandatory	Description
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	Order status; the parameter can take the following values: • CREATED – order is created; • APPROVED – order is approved; • DEPOSITED – order is completed; • DECLINED – the order is declined; • REVERSED – order is reversed; • REFUND – there has been a refund for this order;
totalAmount	N..12	No	Order amount + fee (if applicable to the order).
The bankInfo element contains the following parameters.			
bankCountryName	AN..160	No	Country of the issuing bank.

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.
4	Authorization is invalid.
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].

Error codes from parameter errorCode

POST request example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mer="http://engine.paymentgate.ru/webservices/merchant">
  <soapenv:Header/>
  <soapenv:Body>
    <mer:applePay>
      <arg0>
        <merchant>OurBestMerchantLogin</merchant>
        <orderNumber>UAF-203974-DE</orderNumber>
        <description>Test description</description>
        <paymentToken>ew0KICB7DQoJICAidmVyc2lvbiI6ICJSU0FfdjEiLA0KCSAgInNpZ25hdHVyZS
I6ICJabUZyWlNCemFXZHVZWFIxY21VPStsDQoJICAiaGVhZGVyIjogew0KCQkiZXBoZWllcmFsUH
VibGljS2V5IjogIk1Ga3dFd1lIS29aSXpqMENBUVlJS29aSXpqMERBUWNEUWdBRW14Q2hDcGpLem
Y5YVh6MjZXVDZaVE4yekUzaUdYUWpjWlJZWUFkUULURFgyUmtBTmJ0N2s5cmFoRjFoempqbWVWVH
hjZ0NvZkg4MXprMkd0VFozZHRnPT0iICAgICAgIA0KCQkid3JhcHBlZEtleSI6ICJYeji2V1Q2Wl
ROMnpFM2lHWFFqYz0iDQoJCSJwdWJsaWNLZXliYXNoIjogIk9yV2dqUkdrcUVXamRrUmRVclhmaU
xHRDBoZS96cEV1NTEyRkpXckdZRM89IiwNCgkJInRyYW5zYWN0aW9uSWQiOiAiYXBwbGUtMTIzND
U2Nzg5MEFCQ0RFRiINCgkgIH0sDQoJICAiZGF0YSI6ICIXZFhFMTNrdnpUVlA2bldFTjhEMnBocl
BsZlFjR3I4VzN5ajJTSFlZai9QeWNIV1RqbnBWN3ovRXI3OGJyaT09Ig0KICB9DQp9</paymentT
oken>
        <language>RU</language>
        <additionalParameters>
          <entry>
            <key>firstParamName</key>
            <value>firstParamValue</value>
          </entry>
        </additionalParameters>
        <preAuth>true</preAuth>
        <ip>127.0.0.1</ip>
      </arg0>
    </mer:applePay>
  </soapenv:Body>
</soapenv:Envelope>
```

Пример ответа

Successful payment

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
```

```

    <ns1:applePayResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
    <return>
        <success>true</success>
        <data>
            <orderId>4574f3e8-0d9a-418e-adcc-4b63aadee95b</orderId>
        </data>
        <orderStatus orderNumber="1478528500391" orderStatus="2"
actionCode="0" actionCodeDescription="" amount="960000" currency="643"
date="2016-11-07T17:24:13.573+03:00" ip="81.18.144.51" errorCode="0">
            <attributes name="mdOrder" value="4574f3e8-0d9a-418e-
adcc-4b63aadee95b"/>
            <cardAuthInfo maskedPan="520424**0010" expiration="201907"
cardholderName="CARD HOLDER" approvalCode="123456"/>
            <authDateTime>2016-11-07T17:24:13.890+03:00</authDateTime>
            <terminalId>12345678</terminalId>
            <authRefNum>111111111111</authRefNum>
            <paymentAmountInfo paymentState="DEPOSITED"
approvedAmount="960000" depositedAmount="960000" refundedAmount="0"/>
            <bankInfo bankCountryName="&lt;UNKNOWN"/>
        </orderStatus>
    </return>
</ns1:applePayResponse>
</soap:Body>
</soap:Envelope>

```

Failed payment

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
    <soap:Body>
        <ns1:applePayResponse
xmlns:ns1="http://engine.paymentgate.ru/webservices/merchant">
            <return>
                <success>false</success>
                <error>
                    <code>10</code>
                    <description>Merchant hasn't private key</description>
                </error>
                <orderStatus errorCode="0"/>
            </return>
        </ns1:applePayResponse>
    </soap:Body>
</soap:Envelope>

```