

Request for payment using Samsung Pay with fiscal data (payment.do)

The request used for registering an order is «payment.do» (see below).

<https://3dsec.sberbank.ru/payment/samsung/payment.do>

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	No	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.
paymentToken	String	Yes	The contents of the 3ds . data parameter from the response received from Samsung Pay.
ip	ANS..39	Yes	IP-address of the buyer. IPv6 is supported in all requests (up to 39 characters).
amount	N..12	Yes	Payment amount in minimum currency units.
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.

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. Each new pair of a parameter name and its value must be separated by a comma. Below is an example of how to use this parameter. <pre>{ "firstParamName": "firstParamValue", "secondParamName": "secondParamValue" }</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
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: • true - the parameter is enabled, a two-phase payment is made; • false - 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).
clientId	ANS..255	No	Identifier of the Customer in the Store system. This parameter is used for the binding functionality. May be present if the store is allowed to create bindings. Specifying this parameter when processing payments with the use of bindings is mandatory. Otherwise, a payment will be unsuccessful.

Name	Type	Mandatory	Description
currencyCode	N3	No	Numeric ISO 4217 code of the payment currency. If this parameter is not specified, it is considered to be equal to the default currency code.
orderBundle	Not applicable	Yes	Block containing the cart of items of the order. The description of the attributes is given below. (Go to description.)
additionalOfdParams	Data block for transferring additional parameters of the OFD	Yes	Some parameters of additionalOfdParams block duplicate parameters of cartItems.items.itemAttributes block. The additionalOfdParams block is included for all line items of the order, whereas cartItems.items.itemAttributes applies to individual items. If the additionalOfdParams and cartItems.items.itemAttributes and additionalOfdParams blocks pass different values, then the priority value will be the one that was passed in cartItems.items.itemAttributes, that is, for an individual position. The transfer of this block is possible only when using the following OFDs: • ATOL; • Business.Ru; • Evotor. (Go to description.)
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

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.
billingAddressLine3	AN..50	No	Address registered for the card at the Issuer Bank. Line 3.

Name	Type	Mandatory	Description
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).

orderBundle

orderBundle contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
orderCreationDate	ANS..21	No	Order creation date in the format YYYY-MM-DDTHH:MM:SS.	All versions.
customerDetails	Not applicable	No	Block containing attributes with data about the customer. The description of the attributes is given below. (Go to description.)	All versions.
cartItems	Not applicable	Yes	Block with the attributes of the items in the cart. The description of the attributes is given below. (Go to description.)	All versions.

customerDetails

customerDetails contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
email	ANS..40	See note below.	Customer's email address, to which the receipt will be sent. Most OFDs support delivery of receipt only to one email address. Some OFDs allow receipt delivery to multiple emails. In this case, the emails should be separated by commas without spaces. Contact your OFD for availability of receipt delivery to multiple emails. It is mandatory to pass one of the two parameters: email or phone.	All versions.

Name	Type	Mandatory	Description	FFD version
phone	NS..12	See note below.	Customer's phone number. It can be of the following format: $^((+7 7 8)?([0-9]){10})\\$. Examples: • +790000000000 • 890000000000 • 900000000000 • 790000000000 If the number is passed in a separate parameter and in additional parameters, the number specified in this phone parameter will be used. When using ATOL fiscalization, the phone parameter should be sent in the following format: The phone number must be passed together with the country code without spaces and additional characters except for the quotation marks (the number «371 2 1234567» must be passed as «+37121234567»). If the phone number belongs to Russia (prefix «+7»), then the value can be passed without a prefix (the number «+79251234567» can be sent as «9251234567»). The maximum string length is 64 characters. One of the fields must be filled in the request: email or phone.	All versions.
contact	ANS..40	No	Customer's preferred way of communication.	All versions.
deliveryInfo	Not applicable	No	Block containing the attributes of the delivery address. The description of the attributes is given below. (Go to description.)	All versions.
fullName	ANS..100	No	Payer's first name, last name, and patronymic.	1.05 and later versions.
passport	ANS..100	No	The series and number of the payer's passport in the following format: 2222888888.	1.05 and later versions.
inn	N..12	No	Taxpayer identification number. From 10 to 12 digits can be passed.	1.05 and later versions.

It is mandatory to pass one of the two parameters: email or phone.

deliveryInfo

deliveryInfo contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
deliveryType	ANS..20	No	Delivery method.	All versions.
country	A..2	Yes	The two-letter country code for the delivery country.	All versions.
city	ANS..40	Yes	Delivery city.	All versions.
postAddress	ANS..255	Yes	Delivery address.	All versions.

cartItems

cartItems contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
items	Not applicable	Yes	Array of blocks describing line items in the cart. Information about every line item in the cart is passed in a separate block that is included in items. Do not use «'»character combination inside this section, or it will cause an error on the gateway side. (Go to description.)	All versions.

items

items« contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
positionId	ANS..12	Yes	Unique identifier of a line item within the order cart.	All versions.

Name	Type	Mandatory	Description	FFD version
Name name Type ANS..100 Description REST Name or the description of an item in any format. Use - to pass \ use \«- to pass » REST Online Lending For Online Lending functionality, it's necessary to specify a description of the line item in accordance with the Yandex.Market catalog, subject to the following requirements: • The following words and character sequences are not allowed: file, exec, insert, as, select, or, procedure, limit, order, and, or, by, asc, desc, delete, update, distinct, having, truncate, replace, handler, like, regex, tz_offset, to_timestamp_tz, bfilename, union, sql-command, abort, alter, analyze, begin, audit, checkpoint, close, cluster, comment, commit, copy, create, deallocate, declare, delete, drop, end, execute, explain, fetch, grant, insert, lock, move, noaudit, notify, prepare, reindex, rename, reset, revoke, rollback, savepoint, select, set, show, shutdown, start, truncate, unlisten, update, vacuum • The following special characters are not allowed: ' & - # % ; = WS Name or the description of an item in any format. Use - to pass \ use \«- to pass » WS Online Lending For online crediting functionality it's necessary to specify a description of the good item in accordance with the Yandex.Market.	ANS..100	Yes	Name or the description of an item in any format. Use - to pass \ use \«- to pass »	All versions.

Name	Type	Mandatory	Description	FFD version
itemDetails	Not applicable	No	Additional block containing the parameters describing a line item. The description of the attributes is given below. The field size limit is 1024 bytes. (Go to description.)	All versions.
quantity	N..18	Yes	Element describing the total of items of one positionId and its unit of measurement The description of the attributes is given below. (Go to description.)	All versions.
itemAmount	N..12	No	The sum of the cost of all line items of one positionId in minimum currency units. Passing itemAmount is mandatory only if the itemPrice parameter was not passed. Otherwise passing of itemAmount is not required. If both parameters – itemPrice and itemAmount – are passed. then itemAmount must be equal to itemPrice * quantity, otherwise, the request will result in an error. When calculating itemAmount = itemPrice*quantity parameter, the result is rounded up to the second digit after the decimal point. For example, if the calculation result is 100.255, then final value will be 100.26.	All versions.
itemCurrency	N3	No	Currency code of a line item according to ISO 4217. If the parameter is not specified, it is considered to be equal to the order currency.	All versions.
itemCode	ANS..100	Yes	Number (identifier) of a line item in the store system.	All versions.
tax	Not applicable	Only for stores with enabled fiscalization settings	An additional tag with attributes describing the tax. Nested tags are described below. (Go to description.)	All versions.
itemPrice	N..12	Only for stores with enabled fiscalization settings	The price of one line item of one positionId specified in minimum currency units. Mandatory for merchants using fiscalization. • itemPrice cannot be less than 0. • itemPrice may be either string or integer.	All versions.

Name	Type	Mandatory	Description	FFD version
itemAttributes	See description.	Only for stores with enabled fiscalization settings	Block containing the attributes of the item. See description below .	1.05 and later versions.

==== itemAttributes ==== itemAttributes contains the attributes array in which the attributes of a line item must be specified (see example and table below).

<sxh JavaScript>

```
«itemAttributes»:{«attributes»:[{«name»:«paymentMethod»,»value«:«1»},{«name»:«paymentObject»,»value«:«1»}]} </sxh>
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Name	Type	Mandatory	Description	FFD version
paymentMethod	N..2	Yes	Payment type. Possible values: • 1 - full pre-payment before the delivery date of the payment subject; • 2 - partial pre-payment before the delivery date of the payment subject; • 3 - advance payment; • 4 - full payment on the delivery date of the payment subject; • 5 - partial payment for the payment subject on the delivery date followed by payment on credit; • 6 - delivery of the payment subject on the delivery date without payment followed by payment on credit; • 7 - payment for the payment subject after its delivery using payment on credit. Values are passed in the following priority (indicated in descending order of priority): 1. Shopping cart from API request. 2. Fiscalization settings in your personal account. 3. Default values. For paymentMethod, the default value is 1 (full prepayment before the transfer of the payment item).	1.05 and later versions.

Name	Type	Mandatory	Description	FFD version
paymentObject	N..2	Yes	Type of item being paid for. Possible values: • 1 - product; • 2 - excisable product; • 3 - work; • 4 - service; • 5 - gambling bet; • 6 - gambling winnings; • 7 - lottery ticket; • 8 - lottery winnings; • 9 - intellectual property; • 10 - payment; • 11 - agent's fee; • 12 - several subjects; • 13 - other payment subject. • 14 - property rights; • 15 - non-operating income; • 16 - insurance premiums: on the amount of expenses that reduce the amount of tax (advance payments) in accordance with paragraph 3.1 of Article 346.21 of the Tax Code of the Russian Federation; • 17 - sales tax; • 18 - resort tax. Values are passed in the following priority (indicated in descending order of priority): 1. Shopping cart from API request. 2. Fiscalization settings in your personal account. 3. Default values. The default value for paymentObject is 1 (item).	1.05 and later versions.
nomenclature	ANS	yes (if markQuantity is passed)	Trade item code in text representation. Maximum length - 32 bytes.	1.05 and later versions.
markQuantity (Go to description.)		No	Fractional quantity of the labeled item.	1.2 and later versions.

Name	Type	Mandatory	Description	FFD version
userData	ANS..64	No	Value of user details. May be transferred only after approval by Federal Tax Service.	1.05 and later versions.
agent_info.type	N..2	Mandatory if agent_info object is passed.	Agent type. The following values are available: • 1 - banking payment agent; • 2 - banking payment subagent; • 3 - payment agent; • 4 - payment subagent; • 5 - attorney; • 6 - commission agent; • 7 - other agent.	1.05 and later versions.
agent_info.paying.operation	ANS..24	No	Name of the transaction of the paying agent.	1.05 and later versions.
agent_info.paying.phones	array ANS..19	No	Phone numbers array of the payments agent in +N format.	1.05 and later versions.
agent_info.payments0operator.phones	Array ANS..19	No	Phone numbers array of the payments operator in +N format.	1.05 and later versions.
agent_info.MT0operator.phones	array ANS..19	No	An array of Money Transfer operator phone numbers in +N format.	1.05 and later versions.
agent_info.MT0operator.name	ANS..64	No	Money Transfer operator name.	1.05 and later versions.
agent_info.MT0operator.address	ANS..256	No	Money Transfer operator address.	1.05 and later versions.
agent_info.MT0operator.inn	N10..12	No	Money Transfer operator TIN.	1.05 and later versions.
supplier_info.phones	Array ANS..19	No	An array of supplier phone numbers in +N format.	1.05 and later versions.
supplier_info.name	ANS..256	No	Supplier name.	1.05 and later versions.
supplier_info.inn	N10..12	No	Supplier TIN.	1.05 and later versions.

==== quantity ==== quantity contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
value	N..18	Yes	Quantity of line items in given positionId. Use a decimal point as a separator in fractions.	All versions.
measure	ANS..20	Yes	The unit of measurement for the quantity of line item instances.	All versions.

If the FFD is version 1.2 or later, then the following parameters are passed here:

Name	Type	Mandatory	Description	FFD version
value	N1	Yes	Quantity of line items in given positionId. For FFD version 1.2+, the value is always 1.	1.2 and later versions.
measure	N..3	Yes	Unit of measurement for the quantity of the payment subject. In case of FFD version 1.2+, if the 'nomenclature' and 'markQuantity' parameters are passed, the value is always 0. In other cases, it can have some value.	1.2 and later versions.

Possible values of **measure**

Value	Description
0	Used for payment subjects that can be sold individually or in units (as well as in the event that the payment subject is a product subject to mandatory labeling with an identification tool (which can be known from mark_code being passed))
10	Gram
11	Kilogram
12	Ton
20	Centimeter
21	Decimeter
22	Meter
30	Square centimeter
31	Square decimeter
32	Square meter
40	Milliliter
41	Liter
42	Cubic meter
50	Kilowatt hour
51	Gigacalorie
70	Day (24h)
71	Hour
72	Minute
73	Second
80	Kilobyte
81	Megabyte
82	Gigabyte
83	Terabyte
255	Applicable when using other units of measurement

==== markQuantity ====

Parameters of **markQuantity** tag:

A parameter included in a tag and indicated as mandatory is only mandatory within that tag. If the tag itself is not mandatory and is not passed, its included parameters should not be passed.

Name	Type	Mandatory	Description
numerator	N..12	yes	The numerator of the fractional part of the payment subject.

Name	Type	Mandatory	Description
denominator	N..12	yes	The denominator of the fractional part of the payment subject.

==== itemDetails ==== 'itemDetails contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
itemDetailsParams	ANS..255	Yes	Additional information on a line item. The parameter represents an array of blocks each of which contains information on a certain characteristic of the line item. (Go to description.)	All versions.

itemDetailsParams

'itemDetailsParams contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
value	ANS..255	Yes	Additional information on a line item.	All versions.
Name name Type AN..255 Type2 ANS..255 Description REST Name of the parameter describing the details of a line item WS Name of the parameter describing the details of a line item	ANS..255	Yes	Name of the parameter describing the details of a line item	All versions.

==== tax ==== tax contains the following elements.

A parameter included in a block and indicated as mandatory is only mandatory within that block. If the section is optional and missing, then the parameters included in it should not be passed.

Name	Type	Mandatory	Description	FFD version
taxType	N..2	No	VAT rate. The following values are available: • 0 – without VAT; • 1 – VAT at rate of 0%; • 2 – receipt VAT at rate of 10%; • 4 – receipt VAT at calculated rate of 10/110; • 6 – receipt VAT at rate of 20%; • 7 – receipt VAT at calculated rate of 20/120. If the cart and fiscalization data are not included in the request, then the default values specified in the personal account are passed to the Fiscal Data Operator (see User Manual for personal account).	All versions.
taxSum	N..18	No	Amount of the tax calculated by the merchant. The amount is specified in minimum currency units	All versions.

==== additionalOfdParams ==== additionalOfdParams contains the following elements.

Name	Type	Mandatory	Description	FFD version
agent_info.type	N..2	Mandatory if agent_info object is passed.	Agent type. The following values are available: • 1 – banking payment agent; • 2 – banking payment subagent; • 3 – payment agent; • 4 – payment subagent; • 5 – attorney; • 6 – commission agent; • 7 – other agent.	1.05 and later versions.
agent_info.paying.operation	ANS..24	No	Name of the transaction of the paying agent.	1.05 and later versions.
agent_info.paying.phones	array ANS..19	No	Phone numbers array of the payments agent in +N format.	1.05 and later versions.

Name	Type	Mandatory	Description	FFD version
agent_info.paymentsOperator.phones	Array ANS..19	No	Phone numbers array of the payments operator in +N format.	1.05 and later versions.
agent_info.MTOperator.address	ANS..256	No	Money Transfer operator address.	1.05 and later versions.
agent_info.MTOperator.inn	N10..12	No	Money Transfer operator TIN.	1.05 and later versions.
agent_info.MTOperator.name	ANS..64	No	Money Transfer operator name.	1.05 and later versions.
agent_info.MTOperator.phones	array ANS..19	No	An array of Money Transfer operator phone numbers in +N format.	1.05 and later versions.
supplier_info.phones	Array ANS..19	No	An array of supplier phone numbers in +N format.	1.05 and later versions.
cashier	A..256	No	Cashier full name	1.05 and later versions.
additional_check_props	ANS..16	No	Additional property of the receipt.	1.05 and later versions.
additional_user_props.name	ANS..24	No	Name of the additional property of the user.	1.05 and later versions.
additional_user_props.value	ANS..24	No	Value of the additional property of the user.	1.05 and later versions.
cashier_inn	N..12	No	Cashier's INN	1.2 and later versions.
client.address	ANS..256	No	Customer address.	1.2 and later versions.
client.birth_date	NS10	No	Customer birth date as dd.mm.yyyy	1.2 and later versions.
client.citizenship	N3	No	Country numeric code of the county of Customer's citizenship. The country code is specified according to All-Russian World Countries Classifier (OKSM)	1.2 and later versions.

Name	Type	Mandatory	Description	FFD version
client.document_code	N2	No	Identification document type numeric code (for example, 21 stands for Russian Passport).	1.2 and later versions.
client.passport_number	NS11	No	Series and number of the payer's passport: 1111 222222	1.2 and later versions.
client.email	ANS..64	No	Customer's email address. Exactly one of the two fields must be passed: email or phone.	1.2 and later versions.
client.phone	NS..19	No	Customer's phone number. Must be passed with the country code without spaces and additional characters (except for + character). For example, the number «+371 2 1234567» should be passed as «+37121234567»). Exactly one of the two fields must be passed: email or phone.	1.2 and later versions.
client.inn	N12	No	INN of the buyer.	1.2 and later versions.
client.name	ANS..256	No	Customer name.	1.2 and later versions.
operatingCheckProps.name	ANS	No	Operation ID The value is «0» until the value of Russia's Federal Tax Service attribute is determined.	1.2 and later versions.
operatingCheckProps.name	ANS	No	Operation ID The value is «0» until the value of Russia's Federal Tax Service attribute is determined.	1.2 and later versions.

Name	Type	Mandatory	Description	FFD version
operatingCheckProps.timestamp	NS19	No	Date and time of the operation in dd.mm.yyyy HH:MM:SS format	1.2 and later versions.
operatingCheckProps.value	ANS..64	No	Operation data.	1.2 and later versions.
sectoralCheckProps.date	NS10	No	Date of the legislative act of the federal body of executive power that sets forth the requirements for assigning the value of «sectoral attribute». Format: dd.mm.yyyy.	1.2 and later versions.
sectoralCheckProps.federalId	ANS	No	Identifier of federal body of executive power. Must be one of the values from directory of federal bodies of executive power	1.2 and later versions.
sectoralCheckProps.number	N..32	No	Number of the legislative act of the federal body of executive power that sets forth the requirements for assigning the value of «sectoral attribute».	1.2 and later versions.
sectoralCheckProps.value	ANS..256	No	A set of values defined by the legislative act of the federal body of executive power.	1.2 and later versions.

===== 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. Missing if order registration failed due to an error detailed in ErrorCode.

Name	Type	Mandatory	Description
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.
message	AN..512	Yes	Comprehensive error description - it is intended for displaying to the user.

===== Error codes =====

Error code	Error text
0	The request has been processed without system errors.
5	Access denied.
5	The user must change the password.
7	System error.
10	Invalid parameter value [paymentToken].
10	Invalid parameter value [orderNumber].
10	Invalid parameter value [merchant].
10	Invalid parameter value [ip].
10	Invalid parameter value [paymentToken.header].
10	Encryption of the data passed in unsuccessful.

===== POST request example ===== <sxh javascript>

```
{«merchant»:«Vmerch»,»orderNumber»:«9eac9d14-4430-7e2a-a582-2d3b00096352»,»description»:«descripton_text»,
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