Request for order payment (paymentorder.do)

The request used for payment for an order is `paymentorder.do`.

Only POST is supported.

The Payment Gateway supports usage of both internal and external MPI.

Validation of card data occurs in accordance with the table:

Name	Meaning	Validation
PAN	N..19	Card validation (check whether the card number is valid), the number of digits in the card number from 13 to 20
CVC	CVC code	3 digits
YYYY, MM	Year, Month	Present or future date If the card is valid until the current year of the current month, payment is possible before the end of the calendar month
TEXT	Cardholder	Not tested

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.

Internal MPI

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	Yes	Login of the service account of the merchant.
password	AN..30	Yes	Merchant's service account password.
MDORDER	ANS..36	Yes	Order number in the payment gateway. Unique within the payment gateway.
$PAN	N12...19	Yes	Payment card number.
$CVC	N3	Yes	CVC/CVV2 code on the back of the card.
YYYY	N4	Yes	The year of expiration of card validity period.
MM	N2	Yes	The month of expiration of card validity period.

Name	Type	Mandatory	Description
TEXT	A..512	Yes	Cardholder's name in Latin characters, if available.
language	A2	Yes	Language in the ISO 639-1 encoding. If the language is not specified, the default language defined in the store settings is used.
ip	ANS..39	No	IP-address of the buyer. IPv6 is supported in all requests (up to 39 characters).
email	ANS..40	No	Customer's email address.
bindingNotNeeded	boolean	No	The possible values are: • true – prohibition to create a binding after the payment (the Customer identifier passed during order registration will be removed from the order details after the payment is made); • false – as a result of successful payment, a binding can be created (if the corresponding conditions are met). This value is the default value.
jsonParams	String	No	Additional parameters of the request. Format: {«Name1»: «Value1», «Name2»: «Value2»}. 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
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.
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.

Name	Type	Mandatory	Description
billingState	AN..50	No	State registered for the card at the Issuer Bank (ISO 3166-2).

* By default, the orderNumber and description fields are passed to the bank's processing system (no more than 99 characters, %, +, carriage return \r and line feed \n cannot be used)

Response parameters:

Name	Type	Mandatory	Description
errorCode	ANS..3	Yes	Error code.
errorMessage	AN..512	No	Error description in the language passed in the `language` parameter in the request.
info	ANS..*	No	On a successful response. Result of a payment attempt. The available values are presented below. • Your payment has been processed, redirecting.. • Payment declined. Check the entered data and that there are enough funds on the card and repeat the operation. Redirecting... • Sorry, the payment cannot be processed. Redirecting... • Payment declined. Please contact the Merchant. Redirecting... • Payment declined. Contact the bank that issued the card. Redirecting... • Operation is impossible. Cardholder authentication completed unsuccessfully. Redirecting... • No connection to the bank. Try again later. Redirecting... • The data entering period has expired. Redirecting... • No response from the bank. Try again later. Redirecting...
redirect	ANS..*	No	On a successful response. In the case of a payment without the need for authentication to the ACS – URL to which redirect is performed after the payment. In case of a 3D-Secure payment, the URL to return to ACS.
termUrl	AN..512	No	URL to redirect the payer to after authentication. Not used for payments that do not require additional authentication on the issuing Bank's ACS.
acsUrl	AN..512	No	Redirect address to the address of the ACS server. Not used for payments that do not require additional authentication on the issuing Bank's ACS.
paReq	AN..512	No	Request for the payer authentication. Not used for payments that do not require additional authentication on the issuing Bank's ACS.

Error codes

Error code	Error text
0	Request processing took place without system errors
5	All payment attempts are used
5	System or internal error

Request example:

```
MDORDER=0d4b02cb-5147-4232-9012-4d38c743ahr6&$PAN=5555555555555599&$CVC=123&
YYYY=2015&MM=12&TEXT=Card Holder&language=ru
```

An example of a response in case of a payment that does not require additional authentication on the ACS of the Issuing Bank:

```
{"redirect":"www.ya.ru?MDORDER=8cfb5c89-c2db-49e4-80c5-a0569c897cbf&ANSWER=%
3C%3Fxml+version%3D%221.0%22+encoding%3D%22UTF-8%22%3F%3E%0A%3CPSApiResult+p
rimaryRC%3D%220%22+secondaryRC%3D%220%22%2F%3E&STATE=payment_deposited&ACTIO
N_CODE=0&AUTH_CODE=2","info":"Your order is proceeded,
redirecting...","errorCode":0}
```

An example of a response in case of a 3DS payment that requires additional authentication on the ACS of the Issuing Bank:

```
{"info":"Your payment has been processed, redirecting.",
"acsUrl":"https://test.paymentgate.ru/acs/auth/start.do",
"paReq":"eJxVUdFygjAQ/BWG9xKioNQ54tCirQ+oo/QDKNwAVYIGENuvbyJQ60Nmdu8um80ez
K/FUbugqPKS\nuzo1TF1DHpdJzlNX/wiXT44+ZxBmAtHfY9wIZBBgVUUpanni6kWVGlRnsPV2e
GbQKzEpZIyADFRe\nEXEW8ZpBFJ9fVmtmjaYT0wTSUyhQrHw2BdIB4FGBbI8X5Is8zep1zhHIr
Qhx2fBafLOJNQYyEGjE\nkWV1fZoR0ratkZZlekRDNEBUB8jdwbZRqJJK1zxhge+13Vn8bMLD9
yZM7eDLs4Lw4AJRE5BENbKR\nSS3TNm2NOjPTmVnS+60OUaEsMGrKrvpQR+GkXvEee/9rILMUM
urhHwMDvJ5KjnJC5veHgdxdv76r\nFONaxuSveRIvnyfeWxjsNk4QHXJaFZ/V+NIuVba3IaWYy
4ioTTtJRYAoGdKvjfQrlehh1b8el7SS\n",
"termUrl":"https://test.paymentgate.ru:443/testpayment/rest/finish3ds.do",
"errorCode":0}
```

If the payment requires the use of 3-D Secure technology, then once the response to order payment request is received, the Customer must ne redirected to ACS. There are two ways to redirect: standard and simplified (see table below).

Redirect types	Description	
Standard	To redirect to ACS the merchant must send to the customer to the address specified in the acsUrl parameter with the request body MD=mdorder&PaReq=pareq&TermUrl=redirect, where: • mdorder – unique order number in the payment gateway system • pareq – parameter from the response to the payment request, • redirect – parameter from the response to the payment request (return address from ACS) or the Store URL, if the scheme where ACS returns to the Store is used. The request must be in POST format. Depending on the connection scheme used, the Customer after being authenticated on ACS will be redirected to the Payment Gateway or to the Store. The payment completion processes for each of these cases are described below.	
Simplified	In order for the Customer to get to the ACS page, the Merchant redirects him to the Payment Gateway page with the following URL pattern: <api.payment gateway address>/acsRedirect.do?orderId=<order number> where: <payment gateway address> – server and context of the payment gateway; Please remember to include **api.** before the domain name. <Order number> – unique customer order number. Next, the Payment Gateway redirects the Customer (without additional actions on the part of the Customer) to the ACS of the bank, where the Customer is authenticated.	

If no attempts left, the gateway returns the following response to the last payment attempt.

```
{"redirect":"false.html?login=test&orderId=85eb9a84-2a47-7cca-
b0ae-662c000016d1&lang=ru","info":"Operation rejected. Check the entered
data, ensure that there are enough funds on the card.. <br>Redirecting...",
"errorCode":0}
```

The redirect URL is the value passed in the `failUrl` parameter (or `returnUrl`, if `failUrl` is missing).

The payment gateway will return the following response for all subsequent payment attempts.

```
{"redirect":"false.html?login=test&orderId=85eb9a84-2a47-7cca-
b0ae-662c000016d1&lang=ru","info":"Redirecting...","errorCode":0}
```

The redirect URL is the value passed in the `failUrl` parameter (or `returnUrl`, if `failUrl` is missing).

However, the gateway will not return an error.

Return from ACS to Payment Gateway. Standard scheme.

The issuer's ACS authenticates the cardholder and redirects the client to the payment gateway while passing PARes. The payment gateway authorizes the order if the client is successfully authenticated on ACS, or rejects the pre-authorization if the client is not successfully authenticated on the ACS.

Returns from ACS to the store. Scheme involving additional Finish 3DS method

The Issuer's ACS authenticates the cardholder and redirects the Customer back to the Store. The PARes received from ACS is passed to the Store, after which the Store passes it to the gateway using the `finish3dsPayment.do` method.

Description of `finish3dsPayment.do` method is given below:

Request parameters:

Name	Type	Mandatory	Description
userName	AN..30	Yes	Login of the service account of the merchant.
password	AN..30	Yes	Merchant's service account password.
mdOrder	ANS..36	Yes	Order number in the payment gateway. Unique within the payment gateway.
paRes	ANS	Yes	Response to the payer's authentication request.

Response parameters:

Name	Type	Mandatory	Description
redirect	ANS..*	No	On a successful response. In the case of a payment without the need for authentication to the ACS – URL to which redirect is performed after the payment. In case of a 3D-Secure payment, the URL to return to ACS.
errorCode	ANS..3	No	Error code.
error	AN..512	No	Error message (when responding with an error).

If errorCode = 0 – payment was successful. In other cases with an error, see the `error` error message

Error codes (`errorCode` field):

Error code	Error text
0	Request processing took place without system errors
5	Access denied
5	The user must change the password
7	Order is not found
7	System error

Request example:

```
mdOrder=906bf262-bd53-4ac7-983c-07127954681b&
paRes=eJzFV2uTokoS%2FSsTcz8aPYCC6A3HiOKNCshT8BtCyRuUN%2Fz6RXu6p%2B9s78bsbtxY
IgyLE5VJnso8%0D%0AlVUb
IywhZHToNSXcbiRYVW4Av0T%2B969ZFXzDvm43R6DB6on4qwW%2Bdq%2FwhVi58AVfXvAXlySWL9
```

5l%0D%0AQULU8yD0HwYtLK
uoyLfYN%2FTbfIO8vU7OSy9083q7cb07JcpbfE4uUXSD%2FHjdZLAUmS25QV4HG%2BSn%0D%0Axb
F5jKopxD7ytxIDutcfOypG
MigGi8mj2Mlj8n2DPGZsfLeG2zmK4SiBEl%2Bw5Z%2Fo8k9siuaJb24P%0D%0AdyArmsn3nEDRRx
Qfsc20HCXMvWG7xBcb5P1t
A%2FtbkcOH1QZ5H2%2BQn%2BHd3HyLfniw6Zl8T%2BjGsLeb%0D%0AOso%2BDeuJb6rarZtq62yQ
H6ON57btFgBAUQt%2FlELl
vNechTSAt2ei%2B5yygV60RYkpqOn%2FaQXSoCij%0D%0AOsweof4V2CCPUJBnYrcbPQry6WMl%2
FNJnaV59%2FxrW9e1PBOm6
7lu3%2BFaUATKfiCDoGpkm%2BFUU%2FPH1%0D%0A1Qr6Yn4t%2FiMz2s2LPPLcNBrdeqoKCdZh4X
95j%2B0zN4b28IQhGku%2F
TK5ePAzPXx4IusCIySfyudMP%0D%0AzH7nK78GW1buSxW6j4JGfnG03WjwCh8VAb%2BYmvj96x%2
B%2FqQwmCmBV%2FzfRvEXy
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67KDx4zB6cpEayhj%0D%0A
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BC7x%2BS%0D%0A9IPlHg6v
rGwCXTNu7b6OaFjW0XWqlmkfkESRLgyaBsE9AJ1IgUDcgWPO6SN0oll6kQDK0%2Fqd18XL%0D%0A
glFZilJNILGgp0ewowLZoo
BjgNQyJA10TOAwlqru2c5nHHsXnnlulNSuo1%2FxA9vJqm6pPWuA46ut%0D%0AZNACdfNpbLjM16
hE4TZjsKjESJ0cA1QazV7i
igkTn5g0vmOdyrAHCSQ8wEyWCiXasqSeZYDy6rcw%0D%0AKFQOvYxLHFvqGQbsX%2FHKABi1sxhW
k8DqaQt6SfT4FD3Yu%2Fay
ULvgvOoY1dnti7MYtp4MnpzBRA0F%0D%0AksjvQMFTYM%2BTfuSWjBpgpBln7c6tBE6PT%2BHRv6
yR9c0%2Btyewb7x1d7%2FH
zCJvzWU3a3a1I3J3GW9t%0D%0AAehYnJExwiyPjNmG4hYai11xIl51iNddRTTlAzlT7djIkvrosh6
ELbamzLp6yajDc4y2knxEW
7BIj%0D%0AKC3tcj%2Bnii1mME3l9oRdqx0hRLp1FVZwSEEgUQDwceCKT26COuVCQxWKclhOThaL
cK1iFH%2BNCrLp%0D%0A9z
Kcp46PCc1OEsBjfXyx024SD8G%2Fm1uYeqLGUzbVqqPVZ655tttZ5siqEsCf60yHkqDOucE5aaE3
%0D%0AspI0LeQT7yXGZFNT
0tiO6Z62DNuFnWurtZetW1%2F8tR67Z1xsp3ISmLhd%2Fylf3Gu%2BWCDC87m21XtK%0D%0A7VHc
nQdRxicF4h7mzknSghDFB2
M%2FiztSSXaIefIBFpArc5cQSGns1nOCXEcFUVbZQbCtWXPylqdy%0D%0AKXIKDq59pLYz%2FoQc
JXV1a%2FB1sYLtejBaxy2q
lX3ER99UcK2yqW5dOlqjH3GlndfKfn8sMmV3cC86%0D%0AMVVfShdNQpI40hvsJN5flfmpVPPxId
Xop1SnKucREQpdvf5%2FSl
VmnFHG%2FirVH1h3jP8nqR4fvH5I%0D%0AlX9K9SSHkxSvv%2FIFE9%2Bp2mTA0FSkTm5URl91Sc
OZHJ64buTqh5lGLC03GbFm
6jwOd0fYwt6NB71D%0D%0AQe2eVhgUGjoc4Iq0A4Y%2F2g1g6eKy17BbQcZZ1pIylt2LtPcPdQ0K
Yi%2BWpzVU5OUMmS10vBaT
Zl%2Fe%0D%0AZ0vrYAy9TtQZKUzYwhICxW2c%2Bxl0Pt3r3F1suLhq4rCa2XbfdlRTEFUnMkAFVI
Hz0ZMb9eTsM4F6%0D%0Aoi
hdhwoCbq2PiM6xCEEgYKLP6vIN2TNU91gvQZdY16DygDLO8hq%2FmrKq5fhdISs9tuvbSfA1MnI5
%0D%0A9saKf9PWqdO0yhC9
WS0ysb2dxkmbj7g0iaUMMHETkM%2Fqc8oXBejaptC2TtGZapqtwKfFKrjTXRyH%0D%0AHXO4uXNL
q1K3qfZ8vcJP6TGyUUOYU%
2Fc%2BQ8bsOFCxnDf2iRcyFd8HXHZ3UR1yGLgeEWcBTpDdgeWu%0D%0AgDGxynk0LJe0p1z6kp51
QNKOjJgeBGVGYOoQ32RuLd

CzZL689KZ701dz64TMb95xSWa1Kgx25Ki%2F%0D%0AJ1Nq9uiop%2F2bTE1pPbWOJqHtBp%2F5eX
PwhjM77Bt8tQo%2B273%2B
Hsm8S1btJ8nisgF6%2BdldWewXrBNj%0D%0Aduob%2BJsP28rS0dEpwxd24SXzU5G1pjaUDlCnlL
Pt%2FV7XFB2%2BVNG7tM%2
FpS2UkeKdTUd4J3HrG32v7%0D%0AeIgx2tnPdT%2FLmVpC1%2BMSdk17UOvMUwaubWoMoeZJo2p8
CfXrCuHJS3XjclU9hXToTY
e9DCACqpjl%0D%0APnKUgIpMkT7g0SGIjYt%2F5cANMjiXFDDDiOvcSpXVsrQKkpArgPX22WLQEs
bKFQTUVTbat675WPOf%0D%
0AHYelkE6lJQD%2BZceRZX%2BJHI2BnN0DWd%2Bdg%2BqCCnmEEGrEqUrSoNJhQeAXWshEyYMhvu
OQYbYGGuOL%0D%0AuhK6Mm
4o0rGcS6OD7KU0ETskYXSWu5SB2xP3qh1UJmKsBncxEd602JvfrYrq2LkLrd0Mk8hjnB%2FG%0D%
0A7naxylHVT7rQOJ15iTUu
XhZuMtic3BxPzTK7rDX0s46D%2FDwnIu9nx5%2Bnyud19Hk7ftyfPt6a%2FwFG%0D%0ADPms%0D%
0A&
userName=login&password=password

Response example:

{"redirect":"http://ya.ru?orderId=906bf262-bd53-4ac7-983c-07127954681b","err
orCode":0}