

The internet acquiring integration API

Payment Industry Technology LLP

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0. Glossary

PG – the payment gateway, our solution

Merchant - the customer who wants to integrate with PG

MS – merchant's system / store

Basic Auth – Basic authentication is a simple authentication scheme built into the HTTP protocol. The client sends HTTP requests with the Authorization header that contains the word "Basic" followed by a space and a base64-encoded string username:password

1. General information

The server accepts and returns data in JSON format.

The addresses for integration with the service are:

Production environment: https://cards.pitech.kz/gw

Test environment: https://cards-stage.pitech.kz/gw

2. Authentication

The authentication technique is Basic Auth with **appId** and **secretId** (Auth pair). Auth pair will be issued by the PITECH by request. Auth pair on production and test environments are different.

3. Payments

3.1 Payment

This section shows the request and respond for simple payments (classic internet acquiring).

```
POST {{gw_base_url}}/gw/payments/cards/charge
  "amount": 300,
  "currency": "KZT",
  "description": "Payment for order No. 5",
  "extOrdersId": "1234567890",
  "errorReturnUrl": "http://localhost/error.html",
  "successReturnUrl": "http://localhost/success.html",
  "callbackSuccessUrl": "http://localhost/postlink",
  "callbackErrorUrl": " http://localhost/postlink",
  "payload": {
    "extraData1":"some",
    "extraData2": "extra",
    "extraData3":"data",
    "extraData4":"here"
  },
  "extClientRef": "1234567890",
  "extOrdersTime": "2021-07-26T14:35:34.239+06:00",
  "email": "abc@cde.zz",
  "shortenPaymentUrl": "true",
  "cardsId": "card_MPYK_xCIqK6jALwHBwb06F0SVCeOukyr",
  "template": "blue"
```

Field	Required	Type	Description	Example
amount	Yes	Float	The amount to charge	1000
currency	Yes	String	The payment currency	KZT
description	Yes	String	The payment purpose	Payment for order
				No. 5
extOrdersId	Yes	String	The order id in the merchant	"123456g"
			system	
errorReturnUrl	Yes	URL /	The link to redirect customers	http://store/main
		String	after failed payment	
successReturnUrl	Yes	URL /	The link to redirect customers	http://store/error
		String	after successful payment	
callbackSuccess	No	URL /	The link for sending notification	
Url		String	with order details	
callbackErrorUrl	No	URL /	The link for sending notification	
		String	with order details	
payload	No	Object	Some extra data is required for	{
		/	analytics	"data":"data"
(CI) (D. C	NT	JSON	771 4 2 11 41	} T 1 1
extClientRef	No	String	The customer's id in the	Tax code, phone
			merchant's system	number, email, or some numeric id
extOrdersTime	No	Date	The order time in the	2021-07-
extorders i line	NO	&	merchant's system	26T14:35:34.239
		Time	merchant's system	+06:00
email	No	Email	The customer's email to send a	aa@zz.bb
Cilian	140		receipt	<u>aa @ ZZ.00</u>
		String	Γεεειρί	
shortenPaymentU	No	Boolea	The flag is used to shorten the	true/false
rl	110	n	url. Comfortable to send it via	true/ruise
			messengers	
cardsId	No	String	The card id is required when	card_MPYK_xCI
		8	payment have to be charged	qK6jALwHBwb0
			from the already saved card	6F0SVCeOukyr
template	No	String	The name of the template	default: blue

The response:

```
"merchantName": "TOO \"PAYMENT INDUSTRY TECHNOLOGIES\"",
    "extOrdersId": "1234567890",
    "amount": 300.0,
    "uuid": "3139705e-fe18-40e5-9f28-404f8bed59b8",
    "orderDate": "2021-07-27",
    "ordersId": "477141928907963",
    "currency": "KZT",
    "state": "NEW",
    "paymentUrl": "https://cards-stage.pitech.kz?ordersId=477141928907963&orderDate=2021-07-27&uuid=3139705e-fe18-40e5-9f28-404f8bed59b8",
    "successReturnUrl": "http://localhost/success.html",
    "errorReturnUrl": "http://localhost/error.html",
    "clientsId": 1043,
    "extClientRef": "1234567890",
    "payload": {
```

```
"extraData1": "some",
   "extraData2": "extra",
   "extraData3": "data",
   "extraData4": "here",
   "email": "abc@cde.zz"
   },
   "description": "Payment for order No. 5"
}
```

Field	Type	Description	Example
merchantName	String	The merchant's name	TOO \"PAYMENT
			INDUSTRY
			TECHNOLOGIES\"
extOrdersId	String	The order id in merchant's	1234567890
		system. Sent in the request	
amount	Float	The amount to charge. Sent in	1000
		the request	
uuid	UUID	The unique identificatory	3139705e-fe18-40e5-
			9f28-404f8bed59b8
orderDate	Date	The date of the payment	2021-07-27
ordersId	String	The payment id in the PG	1234
		system	
currency	String	The payment currency	KZT
state	String	The payment state. see below	NEW
		"8. Payment statuses"	
paymentUrl	String	The link to redirect customers to	In the sample above
		the payment page	
successReturnUrl	String	The link to redirect customers	http://store/main
		after successful payment	
errorReturnUrl	String	The link to redirect customers	http://store/error
		after failed payment	
clientsId	Integer	The client id in PG system	1043
extClientRef	String	The client id in the merchant	1234567890
		system	
payload	Object /	Extra data sent in the request	{
	JSON		"extraData":"extraData"
			}
description	String	The payment purpose sent in the	Payment for order No. 5
		request	
cardsId	String	The id of card which has to be	The same as sent in the
		used in payment	request

3.2 Payment status

The request:

 $GET \{\{gw_base_url\}\}/gw/payments?ordersId=\{\{orderId\}\}\&uuid=\{\{uuid\}\}\&orderDate=\{\{orderDate\}\}$

Field	Type	Description	Example

uuid	UUID	The unique identificatory	3139705e-fe18-40e5- 9f28-404f8bed59b8
ordersId	String	The payment id in the PG system	1234
orderDate	Date		2021-07-27

Example:

GET {{gw_base_url}}/gw/payments?ordersId=477141928907963&uuid=3139705e-fe18-40e5-9f28-404f8bed59b8&orderDate=2021-07-27

The response:

The response is the same as the result noted in "3.1 Payment"

3.3 Payment with saved card token

```
POST {{gw_base_url}}/gw/payments/tokens/charge
  "amount": 300,
  "extClientRef": "123456",
  "currency": "KZT",
  "description": "Test payment",
  "email": "support@pitech.kz",
  "extOrdersId": "order-id-1",
  "errorReturnUrl": "https://pitech.kz/failure",
  "successReturnUrl": "https://pitech.kz/success",
  "callbackSuccessUrl": "http://localhost/postlink",
  "callbackErrorUrl": " http://localhost/postlink",
  "payload": {
    "extraData": "extraData"
  "cardsId": "card_MPYK_xCIqK6jALwHBwb06F0SVCeOukyr"
The response:
  "merchantName": "TOO \"PAYMENT INDUSTRY TECHNOLOGIES\"",
  "extOrdersId": "order-id-1",
  "amount": 300.0,
  "uuid": "75dd0d67-559c-4e29-b46a-6eeca4b881be",
  "orderDate": "2021-07-27",
  "ordersId": "768494306263396",
  "currency": "KZT",
  "state": "SUCCESS",
  "card": {
    "mask": "440564-#####-6150",
```

```
"owner": "NAME NAME",
    "issuer": "visa"
  "bankReferenceId": "210727180444",
  "bankReferenceTime": "2021-07-27T18:04:44.549+0600",
  "approvalCode": "180444",
  "paymentResponseCode": "OK",
  "paymentUrl": "https://cards-stage.pitech.kz?ordersId=768494306263396&orderDate=2021-07-
27&uuid=75dd0d67-559c-4e29-b46a-6eeca4b881be",
  "successReturnUrl": "https://pitech.kz/success",
  "errorReturnUrl": "https://pitech.kz/failure",
  "clientsId": 1033,
  "extClientRef": "123456",
  "cardsId": "card_MPYK_xCIqK6jALwHBwb06F0SVCeOukyr",
  "payload": {
    "email": "support@pitech.kz",
    "extraData": "extraData"
  "description": "Test payment"
```

3.4 Two-factor payments

Two-factor payments are often used in business cases when it is necessary to hold money and then charge-off in two steps. The first step is the payment authentication, while the second step is to commit the payment. The request and respond of each step will be shown in the following three sections.

3.4.1 Payment authentication

```
POST {{gw base url}}/gw/payments/cards/auth
  "amount": 300,
  "extClientRef": "12345",
  "currency": "KZT",
  "description": "Test payment",
  "email": "support@pitech.kz",
  "extOrdersId": "order-id-2",
  "errorReturnUrl": "https://pitech.kz/failure",
  "successReturnUrl": "https://pitech.kz/success",
  "payload": {
     "extraData": "extraData"
  }
}
The response:
  "merchantName": "TOO \"PAYMENT INDUSTRY TECHNOLOGIES\"",
  "extOrdersId": "order-id-2",
  "amount": 300.0,
  "uuid": "0282fedf-df27-4f3a-b959-4dc3e616dade",
```

```
"orderDate": "2021-07-27",
  "ordersId": "367768777864552",
  "currency": "KZT",
  "state": "NEW",
  "paymentUrl": "https://cards-stage.pitech.kz?ordersId=367768777864552&orderDate=2021-07-
27&uuid=0282fedf-df27-4f3a-b959-4dc3e616dade",
  "successReturnUrl": "https://pitech.kz/success",
  "errorReturnUrl": "https://pitech.kz/failure",
  "clientsId": 1009,
  "extClientRef": "12345",
  "payload": {
    "extraData": "extraData",
    "email": "support@pitech.kz"
  },
  "description": "Test payment"
    3.4.2 Payment authentication with saved card token
The request:
POST {{gw_base_url}}/gw/payments/tokens/auth
  "amount": 300,
  "extClientRef": "123456",
  "currency": "KZT",
  "description": "Test payment",
  "email": "support@pitech.kz",
  "extOrdersId": "order-id-3",
  "errorReturnUrl": "https://pitech.kz/failure",
  "successReturnUrl": "https://pitech.kz/success",
  "payload": {
    "extraData": "extraData"
  "cardsId": "card_MPYK_xCIqK6jALwHBwb06F0SVCeOukyr"
The response:
  "merchantName": "TOO \"PAYMENT INDUSTRY TECHNOLOGIES\"",
  "extOrdersId": "order-id-2",
  "amount": 300.0,
  "uuid": "cdf7ec65-8921-47db-9416-1887f6ee0d75",
  "orderDate": "2021-07-27",
  "ordersId": "663893318157378",
  "currency": "KZT",
  "state": "NEW",
  "paymentUrl": "https://cards-stage.pitech.kz?ordersId=663893318157378&orderDate=2021-07-
27&uuid=cdf7ec65-8921-47db-9416-1887f6ee0d75",
  "successReturnUrl": "https://pitech.kz/success",
  "errorReturnUrl": "https://pitech.kz/failure",
  "clientsId": 1009,
  "extClientRef": "12345",
  "payload": {
    "extraData": "extraData",
```

```
"email": "support@pitech.kz"
},
"description": "Test payment",
"cardsId": "card_MPYK_xCIqK6jALwHBwb06F0SVCeOukyr"
}
```

3.4.3 Commit payment

```
The request:
POST {{gw base url}}/gw/payments/commit
  "commitAmount": 290,
  "ordersId": "663893318157378",
  "uuid": "cdf7ec65-8921-47db-9416-1887f6ee0d75",
  "orderDate": "2021-07-27"
The response:
  "merchantName": "TOO \"PAYMENT INDUSTRY TECHNOLOGIES\"",
  "extOrdersId": "1234567890",
  "amount": 300.0,
  "uuid": "3139705e-fe18-40e5-9f28-404f8bed59b8",
  "orderDate": "2021-07-27",
  "ordersId": "477141928907963",
  "currency": "KZT",
  "state": "SUCCESS",
  "paymentUrl": "https://cards-stage.pitech.kz?ordersId=477141928907963&orderDate=2021-07-
27&uuid=3139705e-fe18-40e5-9f28-404f8bed59b8",
  "successReturnUrl": "http://localhost/success.html",
  "errorReturnUrl": "http://localhost/error.html",
  "clientsId": 1043,
  "extClientRef": "1234567890",
  "payload": {
    "extraData": "some"
  },
  "description": "Payment for order No. 5"
```

3.5 Reverse payment

```
POST {{gw_base_url}}/gw/payments/reverse {
    "ordersId": "663893318157378",
    "uuid": "cdf7ec65-8921-47db-9416-1887f6ee0d75",
    "orderDate": "2021-07-27"
}
```

```
The response:
  "merchantName": "TOO \"PAYMENT INDUSTRY TECHNOLOGIES\"",
  "extOrdersId": "1234567890",
  "amount": 300.0,
  "uuid": " cdf7ec65-8921-47db-9416-1887f6ee0d75",
  "orderDate": "2021-07-27",
  "ordersId": "477141928907963",
  "currency": "KZT",
  "state": "REVERSE",
  "paymentUrl": "https://cards-stage.pitech.kz?ordersId=477141928907963&orderDate=2021-07-
27&uuid=3139705e-fe18-40e5-9f28-404f8bed59b8",
  "successReturnUrl": "http://localhost/success.html",
  "errorReturnUrl": "http://localhost/error.html",
  "clientsId": 1043,
  "extClientRef": "1234567890",
  "payload": {
    "extraData": "some"
  "description": "Payment for order No. 5"
   3.6 Refund payment
The request:
POST {{gw_base_url}}/gw/payments/refund
  "refundAmount": "200",
  "ordersId": "663893318157378",
  "uuid": "cdf7ec65-8921-47db-9416-1887f6ee0d75",
  "orderDate": "2021-07-28"
}
The response:
  "merchantName": "TOO \"PAYMENT INDUSTRY TECHNOLOGIES\"",
  "extOrdersId": "1234567890",
  "amount": 300.0,
  "uuid": " cdf7ec65-8921-47db-9416-1887f6ee0d75",
  "orderDate": "2021-07-28",
  "ordersId": "663893318157378",
  "currency": "KZT",
  "state": "REFUND",
  "paymentUrl": "https://cards-stage.pitech.kz?ordersId=477141928907963&orderDate=2021-07-
27&uuid=3139705e-fe18-40e5-9f28-404f8bed59b8",
```

"successReturnUrl": "http://localhost/success.html",

```
"errorReturnUrl": "http://localhost/error.html",
"clientsId": 1043,
"extClientRef": "1234567890",
"payload": {
    "extraData": "some"
},
"description": "Payment for order No. 5"
```

4. Cards

4.1 Saving cards

The request:

```
POST {{gw_base_url}}/gw/cards/save {
    "extClientRef": "1234567890",
    "amount": 30,
    "currency": "KZT",
    "successReturnUrl": "http://localhost/success",
    "errorReturnUrl": "http://localhost/error"
}
```

<u></u>				
Field	Type	Description	Required	Example
extClientRef String		The client id in the	Yes	
		merchant system		
amount	Float	The amount	No (default 20)	Any amount
currency	String	The currency	No (default	USD
			KZT)	
successReturnUrl URL		The link to redirect	Yes	http://myshop.ext/success
		customers after		
		successful payment		
errorReturnUrl URL		The link to redirect	Yes	http://myshop.ext/error
		customers after failed		
		payment		

The response:

```
{
  "merchantName": "TOO \"PAYMENT INDUSTRY TECHNOLOGIES\"",
  "amount": 30.0,
  "uuid": "5372711b-9e02-4f16-bb7e-0ca64d9b89d0",
  "orderDate": "2021-08-13",
  "ordersId": "500344287838092",
  "currency": "KZT",
  "state": "NEW",
  "paymentUrl": "https://cards-stage.pitech.kz?ordersId=500344287838092&orderDate=2021-08-
13&uuid=5372711b-9e02-4f16-bb7e-0ca64d9b89d0",
  "successReturnUrl": "http://localhost/success",
  "errorReturnUrl": "http://localhost/error",
  "clientsId": 1033,
```

```
"extClientRef": "1234567890",
"payload": {},
"description": "Сохранение карты",
"paymentType": "SAVE_CARD"
}
```

4.2 Get customer's cards

The request:

```
GET {{gw_base_url}}/gw/cards?extClientRef= {{ extClientRef }} where extClientRef is the customer id in merchant system
```

Example:

```
GET {{gw_base_url}}/gw/cards?extClientRef= 123456
```

The response:

Field	Description
cardsId	The card id in PG system
maskedPan	The card number
holderName	The card holder name
Issuer	The issuer of the card
clientsId	Client id in PG system
State	Card state ACTIVE/INACTIVE/DELETED
Confirmed	The flag that card is confirmed

4.3 Delete card

The request:

```
DELETE {{gw_base_url}}/gw/cards?cardsId={{cardId}}
```

Example:

 $DELETE~\{\{gw_base_url\}\}/gw/cards?cardsId=card_MPYK_xCIqK6jALwHBwb06F0SVCeOukyr$

The response:

No body for the response

5. Subscriptions

5.1 Create subscription

```
The request:

POST {{gw_base_url}}/gw/subscriptions
{

"cardsId": "card_Ls_3rUM4IWXANTJFNASCC-0Fg_WGJ81s",
 "amount": 300,
 "period": 1,
 "interval": "WEEK",
 "extClientRef": "123456",
 "currency": "KZT",
 "email": "customer@email.kz",
 "description": "subscription package start",
 "startTime": "2021-07-30T15:36:00",
 "maxPeriods": 2
}
```

Field	Type	Required	Description	Example
cardsId	String	Yes	The card id to charge	
amount	Float	Yes	The amount to charge	
period	Integer	Yes	How often to charge money?	Once a day, After 2 weeks, etc
interval	String	Yes	Interval of periods between payments	DAY/WEEK/MONTH
extClientRef	String	Yes	The customer id in merchant system	
currency	String	Yes	The currency of payment	
email	String	Yes	The email address to send receipts	
description	String	Yes	The description of the subscription	
startTime	Date&Time	Yes	The first payment datetime	
maxPeriods	Integer	No	How many times try to charge money? How many periods to charge?	For example, 3 payments during 3 months: each month 1 payment: Period = 1 Interval = MONTH maxPeriods = 3

```
The response:
```

```
"createTime": "2021-07-27T22:07:20.989",
"updateTime": "2021-07-27T22:07:20.989",
"createBy": "Jw7eOd--QdIWuaRVcZaPqE5E3nSRJF5-",
"updateBy": null,
"subscriptionsId": "subs_voN5eOM6ypWHHirqjRiq1u3u_fic7Ox4",
"extClientRef": "77012114160",
```

```
"clientsId": 1000,
"cardsId": "card_Ls_3rUM4IWXANTJFNASCC-0Fg_WGJ81s",
"amount": 300.0,
"currency": "KZT",
"email": " customer@email.kz ",
"description": "subscription package start",
"state": "ACTIVE",
"startTime": "2021-07-30T15:36:00",
"interval": "WEEK",
"period": 1,
"maxPeriods": 2,
"successfulTransactionsCount": 0,
"failedTransactionsCount": 0,
"lastTransactionTime": null,
"nextTransactionTime": "2021-07-30T15:36:00",
"2phase": false
```

Field	Description	Additional information
subscriptionsId	Subscription id	
extClientRef	The customer id in merchant	
	system	
clientsId	The customer id in PG system	
cardsId	The customer's card id	
amount	The amount to charge	
currency	The payment currency	
email	The customer email	
description	Subscription's description	
state	Current subscription state	Possible outcomes:
		ACTIVE/DELETED/ENDED
startTime	The datetime of the first	
	payment	
successfulTransactionsCount	The number of successful	
	payments	
failedTransactionsCount	The number of failed payments	
lastTransactionTime	The last payment datetime	
nextTransactionTime	The next payment datetime	

5.2 Update subscription

```
PUT {{gw_base_url}}/gw/subscriptions {
    "subscriptionsId": "subs_LZLUurq2rXIhY1ziqrLumFpArs086GIa",
    "amount": 13000,
    "period": 1,
    "interval": "DAY",
    "currency": "KZT",
    "description": "subscription package start1",
    "startTime": "2021-06-17T15:36:00"
```

}

The response

It is the same as the response shown in section 5.1

5.3 Get subscription

The request

```
GET {{gw_base_url}}/gw/subscriptions/{{subsriptionId}}}
```

The response

It is the same as the response shown in section 5.1

5.4 Get subscriptions

The request

```
\label{lem:general} $$ GET $$ {gw_base_url}}/gw/subscriptions?clientsId={{}} &extClientRef={{}} &page=0&size=20&sort=createT ime,asc clientsId - not required $$ extClientRef - not required $$ sort - customizable $$ $$
```

The response

```
"sorted": false,
"empty": true
},
"first": true,
"numberOfElements": 3,
"size": 20,
"empty": false
```

5.5 Delete subscription

The request

DELETE {{gw base url}}/gw/subscriptions/{{subscriptionId}}

The response

It is the same as the response shown in section 5.1

6. Callbacks

Due to asynchrony of the payment process the PG system can notify the merchant's system about the payment. The merchant has to provide link to its service where notification about payments should be sent.

Here some examples of payment notifications:

```
Successful payment:
```

```
"eventTime": "2021-07-27T12:54:50.190+0000",
"eventId": "Event_HIGy9PYT2FkTswbIMKeR0ey-EaLIRc_d",
"callbackType": "PAY",
"ordersId": "095622910595423",
"ordersTime": "2021-07-27T12:54:21.964+0000",
"ordersState": "SUCCESS",
"ordersStateTime": "2021-07-27T12:54:50.095+0000",
"bankReferenceId": "120881888380",
"bankReferenceTime": "2021-07-27T12:54:50.094+0000",
"merchantsId": 1002,
"extOrdersId": "418634",
"extClientRef": "77714509674",
"payload": {
 "email": "anvar1101@gmail.com"
},
"clientsId": 1082,
"cardsId": "card MVIAry05Nfi8qJiPcISLA 2nm7Qlj9NC",
 "mask": "516949-#####-8024",
 "owner": "NAME NAME",
 "issuer": "mastercard"
```

```
},
"billAmount": 288.3,
"totalAmount": 300.0,
"authAmount": 300.0,
"currency": "KZT",
"message": "Approved",
"description": "Пополнение электронного кошелька",
"2phase": false,
"3ds": true.
 "subscription": false
Failed payment:
"eventTime": "2021-07-27T12:53:21.239+0000",
"eventId": "Event_Nu-iPVK5Kw6cAGczBDiBnCXMP9me9Knu",
"callbackType": "FAIL",
"ordersId": "663332249711110",
"ordersTime": "2021-07-27T12:51:58.856+0000",
 "ordersState": "ERROR",
"ordersStateTime": "2021-07-27T12:53:21.120+0000",
"bankReferenceId": "120880887823",
"bankReferenceTime": "2021-07-27T12:53:21.115+0000",
"merchantsId": 1002,
 "extOrdersId": "418626",
 "extClientRef": "77714509674",
 "payload": {
  "email": "anvar1101@gmail.com"
"clientsId": 1082,
 "cardsId": "card_t4fp8IdCzNf2ChzYHHrJ4U7LYv1XNqFy",
 "card": {
  "mask": "490472-#####-8492",
  "owner": "NAME NAME",
  "issuer": "visa"
},
 "billAmount": 288.3,
"totalAmount": 300.0,
"authAmount": 300.0,
 "currency": "KZT",
"message": "Not sufficient funds",
"description": "Пополнение электронного кошелька",
"2phase": false,
"3ds": true,
 "subscription": false
```

7. Payment status

Code Description	Result
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NEW	The status indicating that payment is created	The money has not been charged
SUCCESS	Final status indicating that payment is successful	The money has been charged
IN_3DS	Not final status indicating that payment is in progress. Waiting for the 3dsecure code from the customer	The money has not been charged
REFUND	Final status indicating that refund is successful	The money has been returned back to the customer's card
REVERSE	Final status indicating that reverse is successful	The money has been returned back to the customer's card
ERROR	Final status indicating that payment is failed	The money has not been charged
TIMED_OUT	Final status indicating that payment is expired on the 3dsecure step	
WAIT_CVC	Not final status indicating that payment is in progress. Waiting for the CVC from the customer	The money has not been charged
AUTH_OK	Not final status indicating that payment is in progress. And the commit is required to finally charge money	The money has been held. The second step for committing the payment is required
EXPIRED	Final status indicating that payment is expired.	The money has not been charged