

API Documentation

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Integration Reference

General information and capabilities

Gateway's API is built in a REST style, based on the JSON-API specification. API provides a universal programmatic access to operate through payment page or directly in a host-to-host way.

Features

- JSON-API based on RESTful JSON API standard.
- Advanced authentication using client certificates.
- 1-stage and 2-stage payments.
- Payment flows: payment page or server-to-server using universal API.
- 3-D Secure support.
- Repeating payment without providing card number, expiration date and cardholder name.
- Optional fields for extra parameters.
- Segment selection to divide payments .
- Selection of the payment page language and layout.
- Setting payment session expiration timeout.
- Payments to the card (OCT).
- Passing of dinamic descriptor.
- Recurrent payments.
- Multicurrency.
- Perform authorizations with zero-amount.
- DSRP.
- 3-D Secure 2.0 support.

Orders and operation paradigm

Payments are represented as orders. Orders keeps general information about payment as well as a cardholder details. Transactions are represented as a sequence of operations associated with the order, for instance: authorize, charge, refund.

Order is associated with a unique ID upon creation, which is used in following requests regarding this order.

Order status

Status represents the current order state.

Status	Description	Possible operations
new	Order has been created, but has yet to be processed	—
prepared	Waiting for outside action	—
authorized	Authorization completed	reverse, charge, rebill
charged	Order has been charged	refund, credit, rebill
reversed	Authorization has been cancelled	rebill
refunded	Order was fully or partially refunded	refund, credit, rebill
rejected	Order has been rejected	rebill
fraud	Order has been determined as a fraud and rejected because of that	rebill
declined	Order has been declined by the acquirer	rebill
chargedback	Order is marked as chargeback	rebill
credited	Order has been credited (OCT)	rebill
error	An error occurred during order processing. You should probably contact the support team	rebill

Operation status

Status represents the final result of processing the operation.

Status	Description
success	Operation processed successfully
failure	Operation has been declined (for instance, an authorization decline occurred)
error	An error occurred during processing of operation. You should probably contact the support team

Workflows

Using payment page

1. Customer presses the "Pay" button on a seller's website.
2. The seller handles customer's payment request and sends a `create` request to the API, specifying description of the purchase, payment amount and other details if needed (see [Order creation](#)).
3. Gateway responds with a `URI` of the payment page and order ID.
4. The seller saves order ID and redirects customer to the `URI`.
5. Customer fills up a payment form on the payment page.
6. Gateway processes authorization using cardholder's credentials and redirects cardholder back to the seller's website.
7. The seller requests order information using saved order ID (see [Order information](#)) and depending on the order status renders result page for the customer.

Server-to-server

1. Customer enters payment info and presses "Pay" button while on a seller's website.
2. Sellers handles the customer's request and sends an `authorize` request to the API (see [Order authorization](#)).
3. Gateway creates order and handles payment using payment info received from seller.
4. Gateway responds with the authorization results.
5. Seller handles the authorization results and renders the result page for the customer.

Charge-off through back-office

After successful payment via payment page is performed charge-off of funds from the customer's card such methods:

1. Enabling autocharge in the project (the delay of autocharge is set in minutes).
2. Manually charge-off of funds in the back-office ("Orders => Needed order => Charge").

API overview

General information

- Requests are made through HTTP 1.1 using SSL and *Basic-Authentication*.
- Requests and responses are encoded in *UTF-8*.
- Requests and responses are *JSON* structures.
- When getting information use method *GET*, when manipulation with data methods *POST* or *PUT* are required.
- In *GET*-requests parameters are passed as *QUERY STRING*.
- In *POST*-requests parameters are passed as a body of the *POST*-request, in some cases *QUERY STRING* could be used too.
- Success responses are sent with a *HTTP*-status 200 or 201. In case of an error the status may vary (see [Response codes](#)).

Authentication

API uses *Basic-Authentication*. Login and password should be passed every time you send request to API.

```
GET /orders/ HTTP/1.1
Authorization: Basic Zm9vOmJhcG==
Host: example.com
```

Response codes

HTTP response code describes the result of requested operation, as follows:

Code	Description
200	This code means the operation you requested has been processed successfully. Depending on which operation you have requested, it may tell that authorization, reversal, charge or refund has been made.
201	An order has been created and it is waiting for additional input.
402	Operation has been declined by acquirer or rejected by gateway
422	Request validation failed.
500	Error on acquirer or gateway side.

Failure types

Failure type describes the source of failure:

Code	Description
declined	The acquirer has declined the transaction.
fraud	Transaction has been declined by fraud prevention rules on gateway side.
rejected	Transaction has been declined by gateway.
error	Failure due to an error on acquirer or gateway side.
validation	Request not processed because of incorrect input.

Working flow

Verifying successful operation

The successful response always returned with the code 200, details of an order are in the response body. To ensure that you have completed the operation, it is necessary and sufficient to check response code and order status in the response body.

Error handling

All errors are returned as a standard failure response, error message can be found in the response body:

```
{
  "failure_type" : "error",
  "failure_message" : "This is an error",
  "order_id" : null,
}
```

Description of an error is located in a *failure_message* field. If there is an order created during request, its identifier returned in an *order_id* field.

Processing declined transactions

All responses for transactions declined by the issuer are returned in a uniform format:

```
{
  "failure_message": "Soft-Decline",
  "order_id": "123456789",
  "failure_type": "declined"
}
```

The principle for forming a response is the same as for [handling errors](#).

If authorization is rejected according to the Soft-Decline scenario, it means that the request parameters are not meets normativs of SCA (Strong Customer Authentication). Such authorization must be done with the *force3d* flag.

In the order information for Soft-Decline, *iso_response_code* will be *A1*.

Validation

In case of validation error there is an extra field *errors* returned which contains the list of incorrect parameters and some extra information.

Example:

```
curl -v -X POST -H 'Content-Type: application/json' -d '{
  "foo" : "bar"
}' 'http://project:***@api.box:5001/orders/create'

> POST /orders/create HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 13
>
< HTTP/1.1 422 Unprocessable Entity
< Content-Type: application/json
< Content-Length: 223
< {
  "errors" : [
    {
      "attribute" : "required",
      "details" : [
        "(true)"
      ],
      "message" : "Required",
      "uri" : "#/amount"
    },
    {
      "message" : "Unknown property",
      "uri" : "#/foo"
    }
  ],
  "failure_message" : "Validation failed",
  "failure_type" : "validation",
  "order_id" : null
}
```

###Sample code

```
response = http.post('https://api/authorize', pan => 4111111111111111, ... , cvv => 123);

if response.code == 200 {
  order = decode_json(response.body);

  print "Authorization success";
  print "Order ID: " . order.id
} else if response.code == 402 {

  print "Authorization declined";
  print "Decline reason: " . response.failure_message;

} else if response.code == 422 {

  print "Input data is incorrect";
  print "Reason: " . response.failure_message;

} else {

  print "An error occured: " . response.failure_message;

}
```

Actions

Test request (GET /ping)

Parameters

Not supported.

Response

Name	Description	Example
message	Message	PONG!
date	Current date and time on server	2016-06-30 14:09:20

Example:

```
curl -v -X GET -H 'Content-Type: application/json' 'http://project:***@api.box:5001/ping'

> GET /ping HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 48
< {
  "date" : "2016-08-22 15:39:42",
  "message" : "PONG!"
}
```

Fetching data

When fetching data such as a list of orders, the number of rows in response is limited to 2000 per page. Please use some filters to narrow search. Follow links in HTTP-headers to scroll through pages.

Order information (GET /orders/:id)

Parameters

Name	Description	Example
expand	List of extra objects to display. Possible expands are: <code>card</code> , <code>client</code> , <code>location</code> , <code>custom_fields</code> , <code>issuer</code> , <code>secure3d</code> , <code>operations.cashflow</code>	card,location,client

Response

Name	Description	Example
amount	Order amount	9.99
amount_charged	Charged amount	9.99
amount_refunded	Refunded amount	5.99
auth_code	Authorization code	AUTH12
card	Card details (*)	—
*.holder	Cardholder name	John Smith
*.subtype	Card subtype	classic
*.type	Card type	visa
client	Client details (*)	—
*.address	Street address	Main ave. 1
*.city	City	San Francisco
*.country	Country	USA
*.email	E-mail	foo@bar.com
*.name	Full name	John Smith
*.phone	Phone number	+14568901231
*.state	State	CA
*.zip	Postal code	12345
*.login	Login	john_doe
created	Creation date and time	2014-06-30 14:38:48
currency	Requested payment currency (ISO-4217 3-alpha code)	USD
description	Order description	Book sale #453
descriptor	Terminal Descriptor	EXAMPLE.COM/12345
id	Unique order ID	5673044075769513
issuer	Card issuer details	—
*.bin	BIN	411111
*.country	Country (ISO 3166-1 alpha-3)	RUS
*.title	Bank name	Bank
location	Client location details (*)	—
*.country	Country (ISO 3166-1 alpha-3)	USA
*.city	City	San Francisco
*.region	Region	California
*.ip	IP-address	8.8.8.8
merchant_order_id	Merchant's order ID	5678
operations	Array of the order operations (*). See description of fields in List of operations	—
pan	Card number (PAN)	411111****1111

secure3d	3-D Secure details (*)	—
*.reason	The reason why 3-D Secure was enabled	force
*.scenario	3-D Secure scenario used	full
*.authorization_status	Status of authorization	Y
segment	Segment	987654321
status	Order status	authorized
updated	Date and time of the last operation	2014-06-30 14:38:48

Example:

```
curl -v -X GET -H 'Content-Type: application/json' 'http://project:***@api.box:5001/orders/65213580296542862?
expand=card,client,location,custom_fields,issuer,secure3d,operations.cashflow'

> GET /orders/23014806815093624?expand=card,client,location,custom_fields,issuer,secure3d,operations.cashflow HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 1018
<
{
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {
        "address" : "Main ave. 1",
        "city" : "San Francisco",
        "country" : "USA",
        "email" : "foo@bar.com",
        "name" : "John Smith",
        "phone" : "+1 456 890",
        "state" : "CA",
        "zip" : "123456"
      },
      "created" : "2021-11-12 12:16:13",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : "Book sale #453",
      "descriptor" : "TESTMERCH/TERM",
      "id" : "65213580296542862",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : "5678",
      "operations" : [
        {
          "type": "authorize",
          "iso_message": "Approved",
          "created": "2021-11-12 12:16:13",
          "amount": "1213.00",
          "auth_code": "212636",
          "iso_response_code": "00",
          "cashflow": {
            "incoming": "0.00",
            "fee": "0.00",
            "receivable": "-36.39",
            "amount": "0.00",
            "currency": "USD",
            "reserve": "36.39"
          },
          "currency": "USD",
          "status": "success"
        },
        {
          "currency": "USD",
          "status": "success",
          "cashflow": {
            "receivable": "1164.48",
            "amount": "1213.00",

```

```

        "reserve": "36.39",
        "currency": "USD",
        "incoming": "1200.87",
        "fee": "12.13"
    },
    "arn": "73922059535879175995901",
    "iso_response_code": "00",
    "iso_message": "Approved",
    "created": "2021-11-12 12:21:13",
    "amount": "1213.00",
    "type": "charge"
  }
],
"pan" : "411111****1111",
"secure3d" : {},
"segment" : "987654321",
"status" : "authorized",
"updated" : "2016-08-22 15:39:49"
}
]
}

```

List of orders (GET /orders/)

Optional parameters

Name	Description	Example
<code>expand</code>	List of extra objects to display. Possible expands are: <code>card</code> , <code>client</code> , <code>location</code> , <code>custom_fields</code> , <code>issuer</code> , <code>secure3d</code> , <code>operations.cashflow</code>	<code>card</code> , <code>location</code> , <code>client</code>
<code>status</code>	Filter by status	<code>charged</code> , <code>refunded</code>
<code>created_from</code>	Filter by date of creation	2016-01-01 00:00:00
<code>created_to</code>	Filter by date of creation	2016-01-31 23:59:59
<code>merchant_order_id</code>	Filter by merchant order ID	12345, 123456
<code>card.type</code>	Filter by card type	<code>visa</code> , <code>mastercard</code>
<code>card.subtype</code>	Filter by card subtype	<code>electron</code> , <code>maestro</code>
<code>location.ip</code>	Filter by IP address	8.8.8.8, 8.8.8.9
<code>client.name</code>	Find by client name or part of it	Smith
<code>client.email</code>	Find by email or part of it	@yahoo.com
<code>issuer.country</code>	Filter by issuer country (ISO 3166-1 alpha-3)	USA
<code>issuer.bin</code>	Filter by issuer BIN	555555, 411111
<code>issuer.title</code>	Find by issuer name or part of it	Credit Union

Response

All the fields are the same as described in [Order information](#).

Example:

```

curl -v -X GET -H 'Content-Type: application/json' 'http://project:***@api.box:5001/orders/'

> GET /orders/ HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 5550
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "created" : "2016-08-22 15:39:49",
      "currency" : "USD",
      "description" : "Book sale #453",
      "descriptor" : "TESTMERCH/TERM",
      "id" : "23014806815093624",
      "merchant_order_id" : "5678",
      "pan" : "411111****1111",
      "segment" : "987654321",
      "status" : "authorized",
      "updated" : "2016-08-22 15:39:49"
    },
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "created" : "2016-08-22 15:39:48",

```

```

    "currency" : "USD",
    "description" : null,
    "descriptor" : "TESTMERCH/TERM",
    "id" : "23014806643308174",
    "merchant_order_id" : null,
    "pan" : "411111****1111",
    "status" : "authorized",
    "updated" : "2016-08-22 15:39:48"
  }
]
}

```

List of operations (GET /operations/)

Optional parameters

Name	Description	Example
expand	List of extra objects to display. Possible expand is <code>cashflow</code> , <code>extra</code>	cashflow
status	Filter by status	error
type	Filter by type	charge, refund
created_from	Filter by date of creation	2016-01-01 00:00:00
created_to	Filter by date of creation	2016-01-31 23:59:59

Response

Name	Description	Example
amount	Operation amount	9.99
auth_code	Authorization code	AUTH12
created	Operation date and time	2014-06-30 14:38:48
currency	Requested payment currency (ISO-4217 3-alpha code)	USD
iso_message	Response message	Approved
iso_response_code	Response ISO-code	00
status	Operation status	success
type	Operation type	authorize
trace_id	Trace ID	MCC8454300719
cashflow	Financial details (*)	—
*.currency	Accounting currency (ISO-4217 3-alpha code)	EUR
*.amount	Accounting amount	9.00
*.fee	Fee amount	0.00
*.incoming	Income amount	6.00
*.receivable	Receivable amount	5.00
*.reserve	Reserved amount	0.00

Example:

```

curl -v -X GET -H 'Content-Type: application/json' 'http://project:***@api.box:5001/operations/'

> GET /operations/ HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 2931
<
{
  "operations" : [
    {
      "amount" : "11991.00",
      "auth_code" : "AUTH12",
      "created" : "2016-08-24 12:07:00",
      "currency" : "EUR",
      "iso_message" : "Approved",
      "iso_response_code" : "00",
      "order_id" : "23011537206894183",
      "arn": "28281615742473953725862",
      "status" : "success",
      "type" : "charge"
    },
    {
      "amount" : "8997.00",
      "auth_code" : "AUTH12",
      "created" : "2016-08-23 12:06:55",
      "currency" : "USD",
      "iso_message" : "Approved",
      "iso_response_code" : "00",
      "order_id" : "23011536237676397",
      "status" : "success",
      "type" : "authorize"
    }
  ]
}

```

```
]
}
```

Notes

`trace_id` will be displayed only if this option is enabled in the system.

Export of currency rates (GET /exchange_rates/)

Parameters

Name	Description	Example
<code>date</code>	Date of exchange rates	2014-06-30
<code>date_from</code>	Begin date of period for exchange rates	2021-06-29
<code>date_to</code>	Final date of period for exchange rates	2021-06-30

Response

Name	Description	Example
<code>exchange_rates</code>	Data of exchange	—
<code>*.from</code>	Quoted currency	USD
<code>*.to</code>	Base currency	EUR
<code>*.rate</code>	Quote	0.800000

Example:

```
curl -v -X GET -H 'Content-Type: application/json' 'http://project:***@api.box:5001/exchange_rates/?date=2014-06-30'

> GET /exchange_rates/ HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 1805
< {
  "exchange_rates" : [
    {
      "from" : "EUR",
      "rate" : "75.132109",
      "to" : "RUB"
    },
    {
      "to" : "UAH",
      "from" : "EUR",
      "rate" : "31.562887"
    },
    {
      "from" : "EUR",
      "rate" : "334.000000",
      "to" : "UBT"
    },
    {
      "to" : "USD",
      "from" : "EUR",
      "rate" : "1.145036"
    }
  ]
}
```

Notes

Filters by date and date period cannot be used at the same time.

Working with orders

Order creation (POST /orders/create)

The success response on this request is returned with response code 201. It means that the new order is created and it is waiting for input from cardholder.

Required parameters

Name	Description	Example
<code>amount</code>	Order amount	9.99

Optional parameters

Name	Description	Example
<code>currency</code>	Order currency	USD
<code>merchant_order_id</code>	Merchant's order ID	5678
<code>segment</code>	Segment	987654321
<code>description</code>	Order description	Book sale #453
<code>client</code>	Client details (*)	—

*.address	Street address	Main ave. 1
*.city	City	San Francisco
*.country	Country (ISO 3166-1 alpha-3)	USA
*.email	E-mail	foo@bar.com
*.name	Full name	John Smith
*.phone	Phone number	+1 456 890
*.state	State	CA
*.zip	Postal code	123456
*.login	Login	john_doe
custom_fields	Additional custom fields (*), up to 10 additional values	—
location	Client location details (*)	—
*.ip	IP-address	8.8.8.8
options	Options (*)	—
*.expiration_timeout	Session expiration timeout	30m
*.force3d	Forced 3-D Secure verification	1
*.auto_charge	Executes Charge operation (is used for 1-stage payments)	1
*.language	Payment page language	ru
*.return_url	URL to redirect customer when the payment is completed	http://my.url
*.template	Payment page layout	12
*.mobile	Mobile layout	1
*.terminal	Terminal	TERM12
*.recurring	Flag of the recurring payment	1
*.apple_pay_enabled	Apple Pay support on checkout page	1
*.google_pay_enabled	Google Pay™ support on checkout page	1
*.secure3d20_return_url	Notification URL 3-D Secure 2.0	http://return.url
*.exemption_mit	Exemption MIT flag	1
*.static_link	Static link flag	1
recurring_details	Recurrent payment details (*)	—
*.parent_order_id	Parent order ID	74615664219665657
*.trace_id	Trace ID	MCC8454300719
*.indicator	Recurrent payment indicator	m101

Response

Fields in response are the same as described in [Order information](#).

HTTP-header *Location* contents a URL of a payment page. Please redirect the cardholder to this URL.

Example (only required fields provided):

```
curl -v -X POST -H 'Content-Type: application/json' -d '{
  "amount" : 9.99
}' 'http://project:***@api.box:5001/orders/create'

> POST /orders/create HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 15
>
< Location: http://localhost:5002/pay/23014805213622230
< Content-Type: application/json
< Content-Length: 341
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "card" : {},
      "client" : {},
      "created" : "2016-08-22 15:39:42",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : null,
      "id" : "23014805213622230",
      "issuer" : {},
      "location" : {},
      "merchant_order_id" : null,
      "operations" : [],
      "secure3d" : {},
      "status" : "new",
      "updated" : "2016-08-22 15:39:42"
    }
  ]
}
```

Example (all the fields provided):

```
curl -v -X POST -H 'Content-Type: application/json' -d '{
  "amount" : 9.99,
  "client" : {
```

```

    "address" : "Main ave. 1",
    "city" : "San Francisco",
    "country" : "USA",
    "email" : "foo@bar.com",
    "name" : "John Smith",
    "phone" : "+1 456 890",
    "state" : "CA",
    "zip" : "123456"
  },
  "description" : "Book sale #453",
  "location" : {
    "ip" : "6.6.6.6"
  },
  "merchant_order_id" : "5678",
  "options" : {
    "force3d" : 0,
    "return_url" : "http://shop.com",
    "terminal" : ""
  },
  "segment" : "987654321"
} 'http://project:***@api.box:5001/orders/create'

> POST /orders/create HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 357
>
< HTTP/1.1 201 Created
< Location: http://localhost:5002/pay/23014805439541518
< Content-Type: application/json
< Content-Length: 544
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "card" : {},
      "client" : {
        "address" : "Main ave. 1",
        "city" : "San Francisco",
        "country" : "USA",
        "email" : "foo@bar.com",
        "name" : "John Smith",
        "phone" : "+1 456 890",
        "state" : "CA",
        "zip" : "123456"
      },
      "created" : "2016-08-22 15:39:43",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : "Book sale #453",
      "id" : "23014805439541518",
      "issuer" : {},
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : "5678",
      "operations" : [],
      "secure3d" : {},
      "segment" : "987654321",
      "status" : "new",
      "updated" : "2016-08-22 15:39:43"
    }
  ]
}

```

Notes

To manage the inclusion of *Google Pay*™ and *Apple Pay* on the checkout page using flags `*__pay_enabled` must be disabled global support in the settings.

Creating a static link must be enabled in the settings.

Authorize (POST /orders/authorize)

The success response on this request may be returned with response code 200 or 201.

Code 201 means that the order is prepared for the 3-D Secure authentication and it is waiting for cardholder to return from ACS. You should make the cardholder submit the HTML-form provided in response.

Code 200 means that the authorization is complete. This happens in cases when 3-D Secure was not requested or authentication was completed without cardholder participation.

Required parameters

Name	Description	Example
amount	Order amount	9.99
pan	Card number (PAN)	4111111111111111
card	Card details (*)	—
*.cvv	CVV-code (can be configured as optional in project settings)	123
*.holder	Cardholder name (can be configured as optional in project settings, from 2 to 40 characters)	John Smith
*.expiration_month	Month of the card expiration date	06
*.expiration_year	Year of the card expiration date	2022
location	Client location details (*)	—
*.ip	IP-address	8.8.8.8

Optional parameters

Name	Description	Example
currency	Order currency	USD
merchant_order_id	Merchant's order ID	5678
segment	Segment	987654321
description	Order description	Book sale #453
client	Client details (*)	—
*.address	Street address	Main ave. 1
*.city	City	San Francisco
*.country	Country (ISO 3166-1 alpha-3)	USA
*.login	Client login	john_doe
*.email	E-mail	foo@bar.com
*.name	Full name	John Smith
*.phone	Phone number	+1 456 890
*.state	State	CA
*.zip	Postal code	123456
*.login	Login	john_doe
custom_fields	Additional custom fields (*)	—
options	Options (*)	—
*.force3d	Forced 3-D Secure verification	1
*.return_url	URL to redirect customer when the payment is completed	http://my.url
*.auto_charge	Executes Charge operation (is used for 1-stage payments)	1
*.terminal	Terminal	TERM12
*.recurring	Flag of the recurring payment	1
*.secure3d20_return_url	Notification URL 3-D Secure 2.0	http://return.url
*.exemption_mit	Exemption MIT flag	1
secure3d	3-D Secure authentication (*)	—
*.xid	PaRes transaction identifier (XID)	8Rg2xYbxLUGsfZlkoh1JxAQF BM=
*.cavv	Cardholder authentication verification value from PaRes	AAABCBVRA2EYZXQBV1EDAAAA AA=
*.eci	E-commerce indicator (ECI)	05
*.ds_trans_id	Directory server transaction ID	Rcm70YAaT/7SZnqVGFQkm/NJ nbQ=
recurring_details	Recurrent payment details (*)	—
*.parent_order_id	Parent order ID	74615664219665657
*.trace_id	Trace ID	MCC8454300719
*.indicator	Recurrent payment indicator	m101

Response

Fields in response are the same as described in [Order information](#) and may contain extra fields described below.

Name	Description	Example
form3d_html	3-D Secure form in HTML	<form id="form3d" ...
form3d	3-D Secure form (*)	—
*.MD	MD parameter	NTY3NDg0NjMzMjA0MDU1OQ==
*.PaReq	PaReq parameter	Y3NDg0NjMzMjA0MDU1OQ
*.TermUrl	System URL where transaction is finalized	http://box.com/complete
*.action	Acquirer ACS URL	http://bank.com
*.method	Form method	POST

Example (only required fields provided):

```
curl -v -X POST -H 'Content-Type: application/json' -d '{
  "amount" : 9.99,
  "card" : {
    "cvv" : "333",
    "expiration_month" : 12,
    "expiration_year" : 2020,
    "holder" : "John Smith"
  },
  "location" : {
    "ip" : "6.6.6.6"
  },
  "pan" : "4111111111111111"
}' 'http://project:***@api.box:5001/orders/authorize'
```

```

> POST /orders/authorize HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 156
>
< Content-Type: application/json
< Content-Length: 829
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {},
      "created" : "2016-08-22 15:39:48",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : null,
      "descriptor" : "TESTMERCH/TERM",
      "id" : "23014806643308174",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : null,
      "operations" : [
        {
          "amount" : "9.99",
          "auth_code" : "AUTH12",
          "cashflow" : {
            "amount" : "0.00",
            "currency" : "USD",
            "fee" : "0.00",
            "incoming" : "0.00",
            "receivable" : "0.00",
            "reserve" : "0.00"
          },
          "created" : "2016-08-22 15:39:48",
          "currency" : "USD",
          "iso_message" : "Approved",
          "iso_response_code" : "00",
          "status" : "success",
          "type" : "authorize"
        }
      ],
      "pan" : "411111****1111",
      "secure3d" : {},
      "status" : "authorized",
      "updated" : "2016-08-22 15:39:48"
    }
  ]
}

```

Example (all fields provided):

```

curl -v -X POST -H 'Content-Type: application/json' -d '{
  "amount" : 9.99,
  "card" : {
    "cvv" : "333",
    "expiration_month" : 12,
    "expiration_year" : 2020,
    "holder" : "John Smith"
  },
  "client" : {
    "address" : "Main ave. 1",
    "city" : "San Francisco",
    "country" : "USA",
    "email" : "foo@bar.com",
    "name" : "John Smith",
    "phone" : "+1 456 890",
    "state" : "CA",
    "zip" : "123456"
  }
}

```

```

    },
    "description" : "Book sale #453",
    "location" : {
        "ip" : "6.6.6.6"
    },
    "merchant_order_id" : "5678",
    "options" : {
        "force3d" : 0,
        "return_url" : "http://shop.com",
        "terminal" : ""
    },
    "pan" : "4111111111111111",
    "segment" : "987654321"
} 'http://project:***@api.box:5001/orders/authorize'

> POST /orders/authorize HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 470
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 1018
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {
        "address" : "Main ave. 1",
        "city" : "San Francisco",
        "country" : "USA",
        "email" : "foo@bar.com",
        "name" : "John Smith",
        "phone" : "+1 456 890",
        "state" : "CA",
        "zip" : "123456"
      },
      "created" : "2016-08-22 15:39:49",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : "Book sale #453",
      "descriptor" : "TESTMERCH/TERM",
      "id" : "23014806815093624",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : "5678",
      "operations" : [
        {
          "amount" : "9.99",
          "auth_code" : "AUTH12",
          "cashflow" : {
            "amount" : "0.00",
            "currency" : "USD",
            "fee" : "0.00",
            "incoming" : "0.00",
            "receivable" : "0.00",
            "reserve" : "0.00"
          },
          "created" : "2016-08-22 15:39:49",
          "currency" : "USD",
          "iso_message" : "Approved",
          "iso_response_code" : "00",
          "status" : "success",
          "type" : "authorize"
        }
      ],
      "pan" : "411111****1111",
      "secure3d" : {},
      "segment" : "987654321",

```

```

        "status" : "authorized",
        "updated" : "2016-08-22 15:39:49"
    }
}
}

```

Example (3-D Secure):

```

curl -v -X POST -H 'Content-Type: application/json' -d '{
  "amount" : 9.99,
  "card" : {
    "cvv" : "333",
    "expiration_month" : 12,
    "expiration_year" : 2020,
    "holder" : "John Smith"
  },
  "location" : {
    "ip" : "6.6.6.6"
  },
  "options" : {
    "force3d" : 1
  },
  "pan" : "4111111111111111"
}' 'http://project:***@api.box:5001/orders/authorize'

> POST /orders/authorize HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 180
>
< HTTP/1.1 201 Created
< Content-Type: application/json
< Content-Length: 1083
<
{
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {},
      "created" : "2016-08-22 15:39:46",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : null,
      "form3d" : {
        "MD" : "MjMwMTQ4MDYwNzgwNjEzMDM=",
        "PaReq" : "PaReq",
        "TermUrl" : "http://localhost:5002/complete/secure3d",
        "action" : "http://localhost:5002/test/bank",
        "method" : "GET"
      },
      "form3d_html" : "<form id=\"form3d\" method=\"GET\" action=\"http://localhost:5002/test/bank\"><input type=\"hidden\"
name=\"MD\" value=\"MjMwMTQ4MDYwNzgwNjEzMDM=\"><input type=\"hidden\" name=\"PaReq\" value=\"PaReq\"><input type=\"hidden\"
name=\"TermUrl\" value=\"http://localhost:5002/complete/secure3d\"></form><script>window.onload = function()
{document.forms['form3d'].submit();}</script>",
      "id" : "23014806078061303",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : null,
      "operations" : [],
      "pan" : "411111****1111",
      "secure3d" : {
        "reason" : "force3d",
        "scenario" : "unknown"
      },
      "status" : "prepared",
      "updated" : "2016-08-22 15:39:46"
    }
  ]
}

```

Notes

Once the authorization request is completed, it has to be followed with [Charge](#) operation. It also can be done with *auto_charge* option passed in request or automatically depending on project settings. If *charge* is never processed, authorization will be released by the card issuer after some time and authorized amount will be available back to the cardholder.

Reverse (PUT /orders/:id/reverse)

Parameters

Not supported.

Response

Fields in response are the same as described in [Order information](#).

Example:

```
curl -v -X PUT -H 'Content-Type: application/json' 'http://project:***@api.box:5001/orders/23014805692462630/reverse'

> PUT /orders/23014805692462630/reverse HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< Content-Type: application/json
< Content-Length: 1115
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {},
      "created" : "2016-08-22 15:39:44",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : null,
      "descriptor" : "TESTMERCH/TERM",
      "id" : "23014805692462630",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : null,
      "operations" : [
        {
          "amount" : "9.99",
          "auth_code" : "AUTH12",
          "cashflow" : {
            "amount" : "0.00",
            "currency" : "USD",
            "fee" : "0.00",
            "incoming" : "0.00",
            "receivable" : "0.00",
            "reserve" : "0.00"
          },
          "created" : "2016-08-22 15:39:45",
          "currency" : "USD",
          "iso_message" : "Approved",
          "iso_response_code" : "00",
          "status" : "success",
          "type" : "authorize"
        },
        {
          "amount" : "9.99",
          "auth_code" : "AUTH12",
          "cashflow" : {
            "amount" : "0.00",
            "currency" : "USD",
            "fee" : "0.00",
            "incoming" : "0.00",
            "receivable" : "0.00",
            "reserve" : "0.00"
          }
        }
      ]
    }
  ]
}
```

```

        "created" : "2016-08-22 15:39:50",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "reverse"
    }
],
"pan" : "411111****1111",
"secure3d" : {},
"status" : "reversed",
"updated" : "2016-08-22 15:39:50"
}
]
}

```

Charge (PUT /orders/:id/charge)

Parameters

Name	Description	Example
amount	Amount of charge	9.99

Response

Fields in response are the same as described in [Order information](#).

Example (full charge):

```

curl -v -X PUT -H 'Content-Type: application/json' 'http://project:***@api.box:5001/orders/23014806643308174/charge'

> PUT /orders/23014806643308174/charge HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 1113
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "9.99",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {},
      "created" : "2016-08-22 15:39:48",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : null,
      "descriptor" : "TESTMERCH/TERM",
      "id" : "23014806643308174",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : null,
      "operations" : [
        {
          "amount" : "9.99",
          "auth_code" : "AUTH12",
          "cashflow" : {
            "amount" : "0.00",
            "currency" : "USD",
            "fee" : "0.00",
            "incoming" : "0.00",
            "receivable" : "0.00",
            "reserve" : "0.00"
          },
          "created" : "2016-08-22 15:39:48",
          "currency" : "USD",
          "iso_message" : "Approved",
          "iso_response_code" : "00",
          "status" : "success",

```

```

        "type" : "authorize"
      },
      {
        "amount" : "9.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
          "amount" : "9.99",
          "currency" : "USD",
          "fee" : "0.30",
          "incoming" : "9.69",
          "receivable" : "9.69",
          "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:53",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "charge"
      }
    ],
    "pan" : "411111****1111",
    "secure3d" : {},
    "status" : "charged",
    "updated" : "2016-08-22 15:39:53"
  }
]
}

```

Example (partial charge):

```

curl -v -X PUT -H 'Content-Type: application/json' -d '{
  "amount" : 1.99
}' 'http://project:***@api.box:5001/orders/23014806312026412/charge'

> PUT /orders/23014806312026412/charge HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 15
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 1113
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "1.99",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {},
      "created" : "2016-08-22 15:39:47",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : null,
      "descriptor" : "TESTMERCH/TERM",
      "id" : "23014806312026412",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : null,
      "operations" : [
        {
          "amount" : "9.99",
          "auth_code" : "AUTH12",
          "cashflow" : {
            "amount" : "0.00",
            "currency" : "USD",
            "fee" : "0.00",
            "incoming" : "0.00",
            "receivable" : "0.00",
            "reserve" : "0.00"
          },

```

```

        "created" : "2016-08-22 15:39:47",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "authorize"
    },
    {
        "amount" : "1.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
            "amount" : "1.99",
            "currency" : "USD",
            "fee" : "0.06",
            "incoming" : "1.93",
            "receivable" : "1.93",
            "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:51",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "charge"
    }
],
"pan" : "411111****1111",
"secure3d" : {},
"status" : "charged",
"updated" : "2016-08-22 15:39:51"
}
]
}

```

Refund (PUT /orders/:id/refund)

Parameters

Name	Description	Example
amount	Amount of refund	9.99

Response

Fields in response are the same as described in [Order information](#).

Example (full refund):

```

curl -v -X PUT -H 'Content-Type: application/json' 'http://project:***@api.box:5001/orders/23014806643308174/refund'

> PUT /orders/23014806643308174/refund HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< Content-Type: application/json
< Content-Length: 1404
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "9.99",
      "amount_refunded" : "9.99",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {},
      "created" : "2016-08-22 15:39:48",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : null,
      "descriptor" : "TESTMERCH/TERM",
      "id" : "23014806643308174",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : null,

```

```

    "operations" : [
      {
        "amount" : "9.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
          "amount" : "0.00",
          "currency" : "USD",
          "fee" : "0.00",
          "incoming" : "0.00",
          "receivable" : "0.00",
          "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:48",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "authorize"
      },
      {
        "amount" : "9.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
          "amount" : "9.99",
          "currency" : "USD",
          "fee" : "0.30",
          "incoming" : "9.69",
          "receivable" : "9.69",
          "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:53",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "charge"
      },
      {
        "amount" : "9.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
          "amount" : "-9.99",
          "currency" : "USD",
          "fee" : "0.00",
          "incoming" : "-9.99",
          "receivable" : "-9.99",
          "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:55",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "refund"
      }
    ],
    "pan" : "411111****1111",
    "secure3d" : {},
    "status" : "refunded",
    "updated" : "2016-08-22 15:39:55"
  }
]
}

```

Example (partial refund):

```

curl -v -X PUT -H 'Content-Type: application/json' -d '{
  "amount" : 1.99
}' 'http://project:***@api.box:5001/orders/23014806312026412/refund'

> PUT /orders/23014806312026412/refund HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 15
>
< Content-Type: application/json
< Content-Length: 1404
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "1.99",
      "amount_refunded" : "1.99",

```

```

    "auth_code" : "AUTH12",
    "card" : {
      "holder" : "John Smith",
      "subtype" : "classic",
      "type" : "visa"
    },
    "client" : {},
    "created" : "2016-08-22 15:39:47",
    "currency" : "USD",
    "custom_fields" : {},
    "description" : null,
    "descriptor" : "TESTMERCH/TERM",
    "id" : "23014806312026412",
    "issuer" : {
      "bin" : "411111",
      "country" : "UKR",
      "title" : "TestBank"
    },
    "location" : {
      "ip" : "6.6.6.6"
    },
    "merchant_order_id" : null,
    "operations" : [
      {
        "amount" : "9.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
          "amount" : "0.00",
          "currency" : "USD",
          "fee" : "0.00",
          "incoming" : "0.00",
          "receivable" : "0.00",
          "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:47",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "authorize"
      },
      {
        "amount" : "1.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
          "amount" : "1.99",
          "currency" : "USD",
          "fee" : "0.06",
          "incoming" : "1.93",
          "receivable" : "1.93",
          "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:51",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "charge"
      },
      {
        "amount" : "1.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
          "amount" : "-1.99",
          "currency" : "USD",
          "fee" : "0.00",
          "incoming" : "-1.99",
          "receivable" : "-1.99",
          "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:52",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "refund"
      }
    ],
    "pan" : "411111****1111",
    "secure3d" : {},
    "status" : "refunded",
    "updated" : "2016-08-22 15:39:52"
  }
]

```

```
}
```

Cancel (PUT /orders/:id/cancel)

This is the equivalent of making [Reverse](#) or [Refund](#) depending on current order state.

Parameters

Name	Description	Example
amount	Amount of refund (not applicable for reversing)	9.99

Response

Fields in response are the same as described in [Order information](#).

Example:

```
curl -v -X PUT -H 'Content-Type: application/json' 'http://project:***@api.box:5001/orders/23014808614292147/cancel'

> PUT /orders/23014808614292147/cancel HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
>
< HTTP/1.1 200 OK
< Content-Type: application/json
< Content-Length: 1404
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "9.99",
      "amount_refunded" : "9.99",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",
        "subtype" : "classic",
        "type" : "visa"
      },
      "client" : {},
      "created" : "2016-08-22 15:39:56",
      "currency" : "USD",
      "custom_fields" : {},
      "description" : null,
      "descriptor" : "TESTMERCH/TERM",
      "id" : "23014808614292147",
      "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
      },
      "location" : {
        "ip" : "6.6.6.6"
      },
      "merchant_order_id" : null,
      "operations" : [
        {
          "amount" : "9.99",
          "auth_code" : "AUTH12",
          "cashflow" : {
            "amount" : "0.00",
            "currency" : "USD",
            "fee" : "0.00",
            "incoming" : "0.00",
            "receivable" : "0.00",
            "reserve" : "0.00"
          },
          "created" : "2016-08-22 15:39:56",
          "currency" : "USD",
          "iso_message" : "Approved",
          "iso_response_code" : "00",
          "status" : "success",
          "type" : "authorize"
        },
        {
          "amount" : "9.99",
          "auth_code" : "AUTH12",
          "cashflow" : {
            "amount" : "9.99",
            "currency" : "USD",
            "fee" : "0.30",
            "incoming" : "9.69",
            "receivable" : "9.69",
            "reserve" : "0.00"
          }
        }
      ]
    }
  ]
}
```

```

    },
    "created" : "2016-08-22 15:39:56",
    "currency" : "USD",
    "iso_message" : "Approved",
    "iso_response_code" : "00",
    "status" : "success",
    "type" : "charge"
  },
  {
    "amount" : "9.99",
    "auth_code" : "AUTH12",
    "cashflow" : {
      "amount" : "-9.99",
      "currency" : "USD",
      "fee" : "0.00",
      "incoming" : "-9.99",
      "receivable" : "-9.99",
      "reserve" : "0.00"
    },
    "created" : "2016-08-22 15:39:57",
    "currency" : "USD",
    "iso_message" : "Approved",
    "iso_response_code" : "00",
    "status" : "success",
    "type" : "refund"
  }
],
"pan" : "411111****1111",
"secure3d" : {},
"status" : "refunded",
"updated" : "2016-08-22 15:39:57"
}
]
}

```

Repeating payment (POST /orders/:id/rebill)

Required parameters

Name	Description	Example
amount	Amount	9.99
cvv	CVV-code (can be configured as optional in project settings)	123
location	Client location details (*)	—
*.ip	IP-address	8.8.8.8

Optional parameters

Name	Description	Example
options	Options (*)	—
*.recurring	Flag of the recurring payment	1
recurring_details	Recurrent payment details (*)	—
*.trace_id	Trace ID	MCC8454300719
*.indicator	Recurrent payment indicator	m101

Other optional parameters are the same as for [Authorize](#) operation.

Response

Fields in response are the same as described in [Order information](#).

Example:

```

curl -v -X POST -H 'Content-Type: application/json' -d '{
  "amount" : 9.99,
  "cvv" : "123"
}' 'http://project:***@api.box:5001/orders/23014808614292147/rebill'

> POST /orders/23014808614292147/rebill HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 27
>
< Content-Type: application/json
< Content-Length: 815
< {
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",
      "amount_refunded" : "0.00",
      "auth_code" : "AUTH12",
      "card" : {
        "holder" : "John Smith",

```

```

        "subtype" : "classic",
        "type" : "visa"
    },
    "client" : {},
    "created" : "2016-08-22 15:39:58",
    "currency" : "USD",
    "custom_fields" : {},
    "description" : null,
    "descriptor" : "TESTMERCH/TERM",
    "id" : "23014809139351770",
    "issuer" : {
        "bin" : "411111",
        "country" : "UKR",
        "title" : "TestBank"
    },
    "location" : {},
    "merchant_order_id" : null,
    "operations" : [
        {
            "amount" : "9.99",
            "auth_code" : "AUTH12",
            "cashflow" : {
                "amount" : "0.00",
                "currency" : "USD",
                "fee" : "0.00",
                "incoming" : "0.00",
                "receivable" : "0.00",
                "reserve" : "0.00"
            },
            "created" : "2016-08-22 15:39:58",
            "currency" : "USD",
            "iso_message" : "Approved",
            "iso_response_code" : "00",
            "status" : "success",
            "type" : "authorize"
        }
    ],
    "pan" : "411111****1111",
    "secure3d" : {},
    "status" : "authorized",
    "updated" : "2016-08-22 15:39:58"
}
]
}

```

Original credit transaction (OCT) (POST /orders/:id/credit)

Required parameters

Name	Description	Example
amount	Amount	9.99

Optional parameters

Optional parameters are the same as for [Authorize](#) operation.

Response

Fields in response are the same as described in [Order information](#).

Example:

```

curl -v -X POST -H 'Content-Type: application/json' -d '{
    "amount" : 9.99,
    "currency" : "USD"
    "location" : {
        "ip" : "8.8.8.8"
    }
}' 'http://project:***@api.box:5001/orders/23014808614292147/credit'

> POST /orders/23014808614292147/credit HTTP/1.1
> Authorization: Basic cHJvamVjdDpwYXNzd29yZA==
> Host: api.box:5001
> Content-Type: application/json
> Content-Length: 27
>
< Content-Type: application/json
< Content-Length: 815
<
{
  "orders" : [
    {
      "amount" : "9.99",
      "amount_charged" : "0.00",

```

```

    "amount_refunded" : "0.00",
    "auth_code" : "AUTH12",
    "card" : {
      "holder" : "John Smith",
      "subtype" : "classic",
      "type" : "visa"
    },
    "client" : {},
    "created" : "2016-08-22 15:39:58",
    "currency" : "USD",
    "custom_fields" : {},
    "description" : null,
    "descriptor" : "TESTMERCH/TERM",
    "id" : "23014809139351770",
    "issuer" : {
      "bin" : "411111",
      "country" : "UKR",
      "title" : "TestBank"
    },
    "location" : {},
    "merchant_order_id" : null,
    "operations" : [
      {
        "amount" : "9.99",
        "auth_code" : "AUTH12",
        "cashflow" : {
          "amount" : "0.00",
          "currency" : "USD",
          "fee" : "0.00",
          "incoming" : "0.00",
          "receivable" : "0.00",
          "reserve" : "0.00"
        },
        "created" : "2016-08-22 15:39:58",
        "currency" : "USD",
        "iso_message" : "Approved",
        "iso_response_code" : "00",
        "status" : "success",
        "type" : "credit"
      }
    ],
    "pan" : "411111****1111",
    "secure3d" : {},
    "status" : "credited",
    "updated" : "2016-08-22 15:39:58"
  }
}

```

Original credit transaction without link to order (OCT) (POST /orders/credit)

Required parameters

Name	Description	Example
amount	Amount	9.99
pan	Card number (PAN)	4111111111111111

Optional parameters

Optional parameters are the same as for [Authorize](#) operation.

Response

Fields in response are the same as described in [Order information](#).

Example:

```

curl -X POST -H 'Authorization: Basic cHJvamVjdDpwYXNzd29yZA==' -i 'http://project:***@api.box:5001/orders/credit' --data '
{
  "amount" : "99.99",
  "pan" : "4111111111111111"
}'

> HTTP/1.1 200 OK
> Server: nginx/1.10.3 (Ubuntu)
> Date: Tue,
> 18 May 2021 10: 37: 12 GMT
> Content-Type: application/json
> Content-Length: 786
> Connection: keep-alive
>
{
  "orders": [

```

```

{
  "descriptor": " merchant123",
  "amount": "99.99",
  "status": "credited",
  "client": {},
  "amount_refunded": "0.00",
  "description": null,
  "operations": [
    {
      "auth_code": "301541",
      "cashflow": {
        "currency": "USD",
        "fee": "0.00",
        "incoming": "-99.99",
        "reserve": "3.00",
        "receivable": "-102.99",
        "amount": "-99.99"
      },
      "status": "success",
      "amount": "99.99",
      "iso_response_code": "00",
      "currency": "USD",
      "created": "2021-05-18 13:37:12",
      "type": "credit",
      "iso_message": "Approved"
    }
  ],
  "pan": "411111****1111",
  "secure3d": {},
  "created": "2021-05-18 13:37:11",
  "custom_fields": {},
  "currency": "USD",
  "card": {
    "type": "mastercard",
    "subtype": "standard",
    "expiration": "0/0"
  },
  "id": "61277755379729234",
  "issuer": {
    "bin": "527644"
  },
  "amount_charged": "0.00",
  "location": {},
  "auth_code": "301541",
  "merchant_order_id": null,
  "updated": "2021-05-18 13:37:12"
}
]
}

```

Authorization with the transfer of an encrypted token (POST /orders/token_pay)

Required parameters

Name	Description	Example
amount	Amount	9.99
dsrp	DSRP data (*)	—
*.type	Token type	apple_pay
*.token	DSRP token	eyJwYXltZW50RGF0YS...kljcEJhOTRWTi9KVGdhOFc3NUlXQUE9PSJ9fQ==
location	Client location details (*)	—
*.ip	IP-address	8.8.8.8

Note

Endpoint is transferred encrypted token of *Google Pay* or *Apple Pay*. Allowed field values *type*: *google_pay*, *apple_pay*. Optional parameters are the same as for [Authorize](#), except fields *pan*, *card*.*, *secure3d*.*, *options.force3d*, *options.return_url*, *options.secure3d20_return_url*.

Example:

```

curl -X POST -H 'Authorization: Basic cHJvamVjdDpwYXNzd29yZA==' -i 'http://project:***@api.box:5001/orders/token_pay' --data '{
  "dsrp": {
    "type": "apple_pay",
    "token":
"eyJwYXltZW50RGF0YSI6eyJoZWZkZXIiOnsicHVibGljS2V5SGFzaCI6IjBjV0haajNQeTIwTnh0OFZyQU5mY1hTRkZlYU5DSk05SHBDUGlVaGI2M0dXaTcrQXlhMEJtc0tmRUxvSy9
  },
  "amount": "100",
  "currency": "USD",
  "description": "Pay for cinema",
  "payment_type": "card",
  "client": {
    "phone": "+18961234545",

```

```

        "zip": 152589,
        "name": "Fox",
        "city": "City",
        "email": "max@test.com",
        "country": "USA",
        "address": "Some address",
        "login": "foo"
    },
    "location": {
        "ip": "6.6.6.6"
    }
}
,
{
    "orders": [
        {
            "pan": "410937****4320",
            "card": {
                "subtype": "classic",
                "type": "visa",
                "expiration": "7/20"
            },
            "operations": [
                {
                    "currency": "USD",
                    "created": "2022-06-03 11:24:42",
                    "auth_code": "AUTH12",
                    "status": "success",
                    "amount": "100.00",
                    "iso_message": "Approved",
                    "type": "authorize",
                    "cashflow": {
                        "receivable": "-3.00",
                        "reserve": "3.00",
                        "amount": "0.00",
                        "fee": "0.00",
                        "currency": "USD",
                        "incoming": "0.00"
                    },
                    "id": "1",
                    "iso_response_code": "00"
                }
            ],
            "created": "2022-06-03 11:24:41",
            "currency": "USD",
            "amount": "100.00",
            "descriptor": "1/1",
            "updated": "2022-06-03 11:24:42",
            "amount_charged": "0.00",
            "custom_fields": {},
            "merchant_order_id": null,
            "id": "69702830548094412",
            "secure3d": {
                "dsrp_type": "apple_pay",
                "reason": "dsrp",
                "authorization_status": "Y",
                "dsrp": "1",
                "eci": "5",
                "xid": "2686f5297f123ec7fd9d31074d43d201953ca75f098890375f13aed2737d92f2",
                "cavv": "Af9x/QwAA/DjmU65oyc1MAABAAA=",
                "version": "1",
                "scenario": "unknown"
            },
            "description": "Pay for cinema",
            "auth_code": "AUTH12",
            "location": {
                "ip": "6.6.6.6"
            },
            "status": "authorized",
            "amount_refunded": "0.00",
            "rrn": "69702830725209556",
            "issuer": {
                "bin": "410937"
            },
            "client": {
                "address": "Some address",
                "login": "foo",
                "name": "Fox",
                "city": "City",
                "zip": "152589",
                "country": "USA",
                "email": "max@test.com",
                "phone": "+18961234545"
            }
        }
    ]
}

```

```
}
]
}
```

Completion of 3-D Secure Authentication (POST /orders/:id/complete)

Required parameters

Name	Description	Example
PaRes	Payer authentication response	424EF64895CAE9797497F

Example:

```
curl -X POST 'http://project:***@api.box:5001/orders/43809080318125930/complete' -H 'accept: application/json' -H 'authorization: Basic bWVyY2hhbnRfdGVzdDpQQVFpemtWeCtDUlJVbTEr' -H 'Content-Type: application/json' -d '{"PaRes": "YABD53A345D"}'
```

```
{
  "orders": [
    {
      "description": "Book sale 453",
      "auth_code": "AUTH12",
      "amount": "100.99",
      "merchant_order_id": null,
      "id": "43809080318125930",
      "updated": "2019-03-20 18:47:03",
      "pan": "411111****1111",
      "currency": "USD",
      "descriptor": "321/123",
      "amount_charged": "100.99",
      "created": "2019-03-20 18:46:15",
      "status": "charged",
      "amount_refunded": "0.00"
    }
  ]
}
```

Notes

The endpoint sends a response to the authorization request. When resubmitting the request to the endpoint the answer will be received: "Order already completed".

Completion of 3-D Secure 2.0 Authentication (POST /orders/:id/complete3d20)

Optional parameters

Name	Description	Example
cres	Base64 encoded string containing the results of 3-D Secure authentication	ewogICJhY3NUcmFuc0...W9uIiA6IClYlJlEuMCIKfQ==

Response

Fields in response are the same as described in [Order information](#).

Example:

```
curl -X POST -H 'Authorization: Basic cHJvamVjdDpwYXNzd29yZDEyMw==' -i 'http://project:***@api.box:5001/orders/57937457169525773/complete3d20'
```

```
{
  "orders": [{
    "merchant_order_id": null,
    "client": {},
    "secure3d": {
      "reason": "force3d",
      "xid": "635fb7bc-7acc-451e-a37d-606f1febae78",
      "eci": "5",
      "version": "2",
      "authorization_status": "Y",
      "dsrp": "0",
      "cavv": "AAABBBZEEBgAAAAAAAAAQAAAAAAAA=",
      "scenario": "full"
    },
    "updated": "2020-12-18 13:13:43",
    "amount": "123.00",
    "currency": "USD",
    "status": "authorized",
    "pan": "510033****0101",
    "amount_refunded": "0.00",
    "amount_charged": "0.00",
    "operations": [{
      "amount": "123.00",
      "auth_code": "123",
      "cashflow": {

```

```

        "currency": "USD",
        "receivable": "-3.69",
        "amount": "0.00",
        "fee": "0.00",
        "incoming": "0.00",
        "reserve": "3.69"
    },
    "type": "authorize",
    "iso_message": "Approved",
    "created": "2020-12-18 13:13:43",
    "iso_response_code": "00",
    "status": "success",
    "currency": "USD"
  }],
  "auth_code": "123",
  "description": null,
  "custom_fields": {},
  "location": {
    "ip": "6.6.6.6"
  },
  "card": {
    "type": "mastercard",
    "expiration": "10/22",
    "subtype": "standard"
  },
  "issuer": {
    "bin": "510033"
  },
  "id": "57937457169525773",
  "created": "2020-12-18 13:09:52"
}]
}

```

Notes

The endpoint completes authorization performed with 3-D Secure 2.0 authentication. If there is no data in the order properties identification from *RReq*, a validation error will be received and order will remain in the *prepare* status.

Continue 3DS Method URL of authentication (POST /orders/:id/resume)

Parameters

Not supported.

Response

Fields in response are the same as described in [Order information](#).

Example:

```

curl -X POST -H 'Authorization: Basic cHJvamVjdDpwYXNzd29yZDEyMw==' -i 'http://project:***@api.box:5001/orders/60391976929806541/resume'

{
  "orders": [{
    "amount": "1.00",
    "custom_fields": {},
    "id": "60391976929806541",
    "form3d": {
      "threeDSSessionData": "NjAzOTE5NzY5Mjk4MDY1NDE=",
      "method": "POST",
      "action": "http://checkout.***.local:80/complete/secure3d20"
    },
    "issuer": {
      "bin": "220138"
    },
    "amount_refunded": "0.00",
    "amount_charged": "0.00",
    "created": "2021-04-08 12:29:19",
    "form3d_html": "<form id=\"form3d\" method=\"POST\" action=\"http://checkout.***.local:80/complete/secure3d20\"><input type=\"hidden\" name=\"threeDSSessionData\" value=\"NjAzOTE5NzY5Mjk4MDY1NDE=\"></form><script>window.onload = function() {document.forms['form3d'].submit();}</script>",
    "updated": "2021-04-08 12:29:20",
    "status": "prepared",
    "description": null,
    "location": {
      "ip": "6.6.6.6"
    },
    "currency": "EUR",
    "client": {},
    "pan": "220138****0013",
    "merchant_order_id": null,
    "operations": [],
    "card": {
      "holder": "John Smith",
      "type": "mir",

```

```

    "subtype": "unknown",
    "expiration": "12/21"
  },
  "secure3d": {
    "dsrp": "0",
    "scenario": "unknown",
    "reason": "force3d",
    "eci": "0",
    "version": "2"
  }
}
}

```

Notes

The endpoint continues the authorization described in [Payments with 3-D Secure 2.0](#). Maximum time waiting for a response to a request - 10 seconds.

Additional capabilities

Dynamic descriptor

This is applicable when the acquirer has support for dynamic descriptor.

Dynamic descriptor allows to customize merchant name and location as they shown in cardholder's bank statement and SMS from issuer.

The default merchant name and location associated with MID may be overridden with custom values for each payment request. Dynamic descriptor is supported in [Authorize](#), [Create](#) and [Rebill](#) requests.

Dynamic descriptor data should be specified within *extra_fields* block as follows:

Required parameters

Name	Description	Example
<i>dynamic_descriptor</i>	Dynamic descriptor (*)	—
<i>*.merchant</i>	Merchant name	BOOKSTORE LTD
<i>*.city</i>	Merchant's city	London
<i>*.country</i>	Merchant's country (ISO 3166-1 alpha-2)	GB

Notes

Combined length of **.merchant* and **.city* values should not be more than 37 symbols and length of **.merchant* alone should not be greater than 22 symbols. Both parameters may consist of alphanumeric characters and punctuation marks.

According to provided example values, resulting descriptor visible to cardholder may look like this

BOOKSTORE LTD>London GB

Unique conversion of payments

If a unique identifier is transferred at payment, then all orders having one identifier, are considered one attempt. By identifier calculates a unique conversion of payments. A unique order ID is supported in [Authorize](#), [Create](#) and [Rebill](#) requests. For example, there were five attempts of order with the same identifier, one of which was successful. In this case, the conversion will be 20% (5 attempts, successful - 1), but a unique conversion - 100%, because based on the logic of counting unique attempts, it was one and ended in success.

A unique identifier is passed in the *extra_fields* block:

Name	Description	Example
<i>attributes</i>	Parameters (*)	—
<i>*.invoice_id</i>	Unique identifier of payment	741852963

Payments with 3-D Secure 2.0

Data for 3-D Secure 2.0 authentication is transmitted in the request [Authorize](#) in the parameter *secure3d*.

Required parameters

Name	Description	Example
<i>secure3d</i>	3-D Secure authentication (*)	—
<i>*.browser_details</i>	Browser details	—
<i>*.*.browser_accept_header</i>	Accepted content types	text/html
<i>*.*.browser_color_depth</i>	Device color depth	24
<i>*.*.browser_ip</i>	User IP	109.86.86.86
<i>*.*.browser_language</i>	Browser language	en
<i>*.*.browser_screen_height</i>	Browser area height	1080
<i>*.*.browser_screen_width</i>	Browser area width	1920
<i>*.*.browser_timezone</i>	Difference between browser timezone and UTC time in minutes	-180
<i>*.*.browser_user_agent</i>	Browser user agent	Mozilla
<i>*.*.browser_java_enabled</i>	Java enable flag in the browser	false
<i>*.*.window_height</i>	Browser window height	1080
<i>*.*.window_width</i>	Browser window width	1920

Optional parameters

Name	Description	Example
------	-------------	---------

<code>secure3d</code>	3-D Secure authentication (*)	—
<code>*.force_challenge</code>	Flag to force the challenge flow scenario to be enabled	1

Notes

The `force_challenge` flag can also be passed for the [Create](#) and [Authorize](#) requests in the `options` parameter.

If the authorization response looks like this:

```
{
  "method3d_params": {
    "method_url": "https://ds.testcert.testconnect.su/ma",
    "method_data": "axJ0aHJlZURTtWV0aG9kTm90aWZpY2F0aW9uVWJMIjoiaHR0cHM6Ly8zZHN0ZXN0Lm1kbWJhbmsucnUvY2dpLWJpb
    i9jZ2lfbGlua193IiwidGhyZWVUeU1NlcnZlclRyYW5zSUQiOiJkNDI0ZDFjMS02OTUwLTRkNmMtYTMwNy0zMTcxZDgzYjJiN2IifQ"
  },
  "message": "Method3d required",
  "order_id": "60391976929806541"
}
```

then you need to collect in the user's browser a form that sends data to an invisible `iframe` using for these are the values of the `method_url` and `method_data` parameters from the authorization response.

After the user's browser has submitted the form to an invisible `iframe`, you need to do the request which described in the section [Continue 3DS Method URL of authentication](#).

DSRP

The DSRP data is transmitted in the parameter `secure3d`

Required parameters

Name	Description	Example
<code>secure3d</code>	3-D Secure authentication (*)	—
<code>*.dsrp</code>	DSRP	1
<code>*.xid</code>	PaRes transaction identifier (XID)	8Rg2xYbxLUGsfZlKoh1JxAQFBM=
<code>*.cavv</code>	Cardholder Authentication Verification Value from PaRes	AAABCBVRA2EYZXQBV1EDAAAAA=
<code>*.eci</code>	E-commerce Indicator (ECI)	05

Optional parameters

Name	Description	Example
<code>dsrp_type</code>	Type system DSRP. Possible types are: <code>masterpass</code> , <code>apple_pay</code> , <code>google_pay</code>	masterpass
<code>dsrp_wallet_id</code>	ID digital wallet	765

Parameter `dsrp_wallet_id` are applied only for the `dsrp_type == masterpass`. If the type of payment system is not specified, the default is ApplePay.

When working with DSRP, merchant gets a token, which contains the requisites for payment. Example of filling for the ApplePay:

Name for ApplePay	Name for API
<code>applicationPrimaryAccountNumber</code>	<code>pan</code>
<code>applicationExpirationDate</code>	<code>expiration_month expiration_year</code>
<code>transactionAmount</code>	<code>amount</code>
<code>transactionId</code>	<code>xid</code>
<code>onlinePaymentCryptogram</code>	<code>cavv</code>
<code>eciIndicator</code>	<code>eci</code>

The fields `holder` and `cavv` are not transmitted, because they are not contained in the token, `dsrp` always has the value 1 (`true`), `eci` is passed only if it is contained in a token.

Binding a payment card (Oneclick)

When creating a payment can be binding a buyer card. In the future, can be select one of the binded cards on the payment page. For binding the card, must be specify the alphanumeric identifier of the buyer.

Card binding is performed on the payment page using the card save check box.

The id must not exceed 40 symbols, it is transmitted in the block `extra_fields` of the query [Create](#):

Name	Description	Example
<code>oneclick</code>	Binding a card (*)	—
<code>*.customer_id</code>	Buyer id	0123654789
<code>*.prechecked</code>	Flag of filling the checkbox for saving the card	1

Paged downloads of lists of orders and operations

For a list of orders or operations, you can specify the number of entries on the page. It is also possible to specify the page number to download list of orders (operations).

Name	Description	Example
<code>page</code>	Number loadable page	2
<code>page_size</code>	Number of records on the page	50

If the `page` and `page_size` parameters are not specified, the page with the number 1 will be downloaded. She will be contain the number of entries by default.

For example, if `page = 2` and `page_size = 50`, then 50 entries will be downloaded, starting from the 51st.

HTTP headers in the response contain in the header *Pagination* links to subsequent and previous pages of list of orders (operations). If is downloaded first page, there will only be a link to the next page of list. For example, if is downloaded a second page from the list of orders, the title will contain links of that type:

```
'<http://mybox.localhost?foo=bar&page_size=2&page=1>; rel="prev", <http://mybox.localhost?foo=bar&page_size=2&page=3>; rel="next"'
```

If an incorrect values of the *page_size* or *page* parameters is set, to will be error of validation with that message:

```
'message' : 'Invalid page size' or 'message' => 'Invalid page'
```

Open Banking

To make payments through Open Banking, the [Create](#) request is used. The response to the request contains data necessary for making the payment.

Example of response data:

```
{
  "orders": [
    {
      "id": "85341004036767914",
      ...
      "alternative_payments": [
        {
          "image": "https://checkout_domain.example/img/button_image.svg",
          "url": "https://checkout_domain.example/open_banking/create_payment/85629878248914133",
          "provider": "Terminal for Open Banking"
        }
      ]
    }
  ]
}
```

https://checkout_domain.example/open_banking/create_payment/85629878248914133 - user redirect link.

If necessary, the merchant configures the display of the payment button and the field for entering the one-time password on their website. Example HTML code for displaying the button:

```
<form method="POST" action="https://checkout_domain.example/open_banking/create_payment/85629878248914133">
  <input name="order_id" type="hidden" value="85341004036767914">
  <button type="submit">
    
  </button>
</form>
```

The one-time password (OTP) must be passed to the [Create](#) request in the *custom_fields* block in the *auth_code* field.

Notes

Enabling the ability to make payments via Open Banking is done by customization in the project.

3RI Transactions

The 3RI authentication method is used for conducting recurring 3D-Secure payments without the cardholder's participation. The ability to use 3RI transactions is enabled in the project settings. Decoupled Authentication can be requested for a 3RI transaction. Condition of Decoupled Authentication include the presence of a 3RI indicator in the response, the absence of a 3D-Secure form, and the order status - *prepared*. If the response contains these specified signs, the transaction should be completed within a few days. The merchant should not take any actions to complete the transaction.

The presence of the *secure3ri* field in the response indicates a 3RI transaction.

Name	Description	Example
<i>secure3ri</i>	3RI data (*)	—
<i>*is_secure3ri</i>	3RI flag	1
<i>*.status</i>	Authentication status	none

Testing

Overview

Test payments are being processed via test terminal. Please contact the support team for access to the test terminal.

While testing you can use any valid test card numbers, any valid date of expiration, CVV-code and cardholder name. Test terminal accepts all the payments with any valid credentials.

If you want to determine the way test terminal responds, you can use some special card numbers:

Card number	Description
4111111111111111	Success authorization
2222400060000007	Success authorization
4276990011343663	Non 3-D Secure: declined authorization;
	3-D Secure: "Unable to verify enrollment" scenario.
5555555555555599	Internal system error
4276838748917319	3-D Secure scenario "Not enrolled"

40000000000000002

Declined as fraud