

checkbox

The updated specification is available at the [link](#)

Service interaction specification

Checkbox (RESTful API)

version from 06.04.2022

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Checkbox is a software registration service for settlement operations.

This document describes all aspects of connecting the Checkbox software registration service for settlement operations for an eCommerce portal or any other application that requires the implementation of the settlement operations registration (fiscalization) function in the form of an open RESTful API.

The service consists of a **user portal**, **transaction processing**, **signature agents** and **front-end agents**.

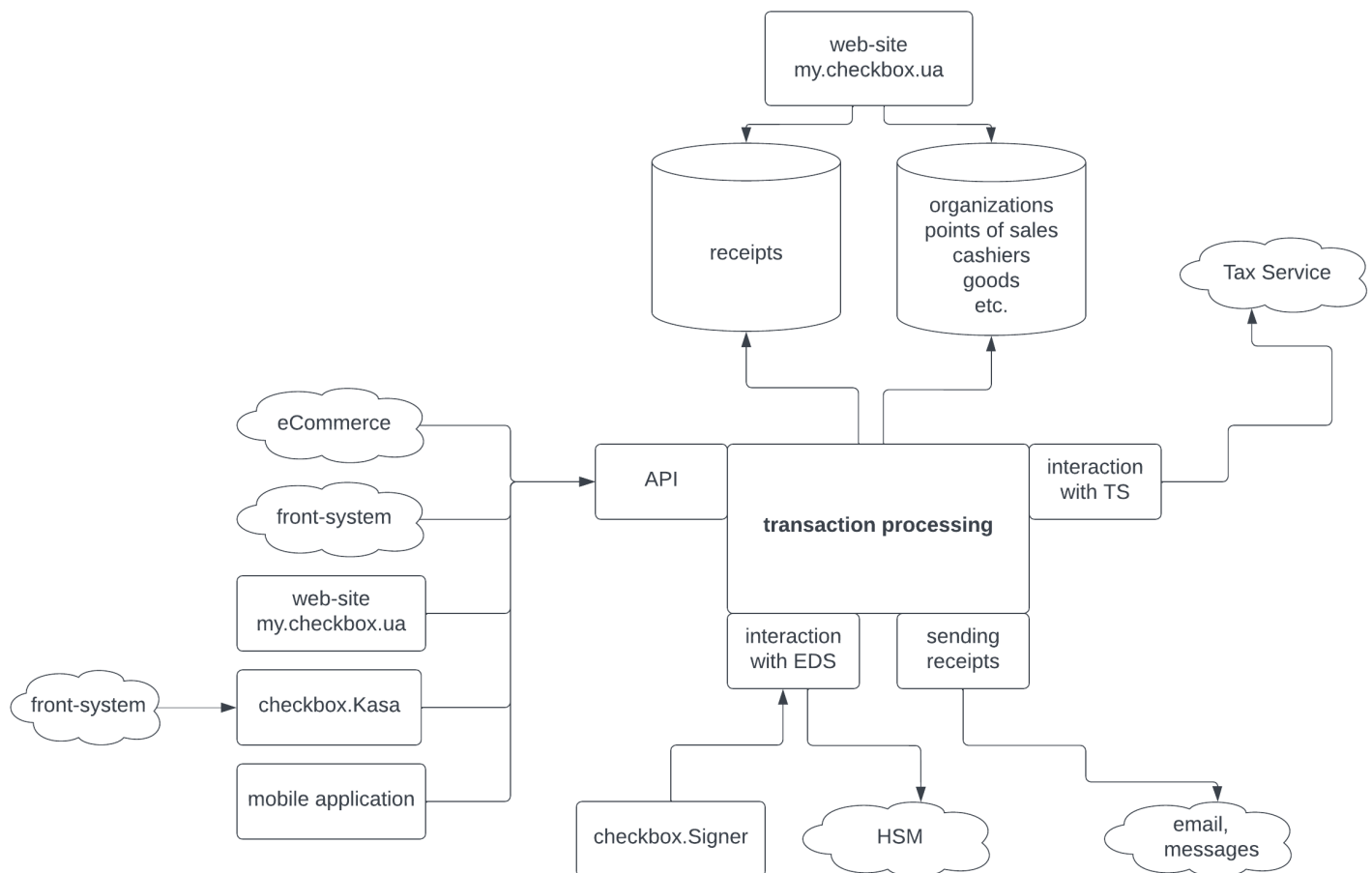
Through the my.checkbox.ua portal, the merchant is registered in the system and his points of sale, cash registers and cashiers are managed.

Transaction processing provides interaction with the Tax Service, interaction with signature agents and implements an API interface for the work of front agents through which the end user creates checks.

Front-end agents can be:

- For Retail – a specialized library Checkbox.Kasa, which is installed on the merchant's cash register node (PC);
 - WebAPI;
 - For eCommerce – WebAPI with a specification adapted to eCommerce tasks;
 - For small and medium business – Checkbox mobile application with front-end functionality and web page.
-

General architecture of the service



Service operation procedure:

1. API request for cashier authorization.
2. API request to open a shift.
3. Requests to the API for registration of settlement transactions. The receipt is fiscalized, printed or sent to the buyer via mail or message.
4. Checking the receipt status.
5. You can get a fiscal receipt by the request ID (data and graphic image - for printing).
6. At the end of the day, a request to the API to close the shift - if automatic shift closing is not configured (the setting is available in the personal account on the my.checkbox.ua website).

Procedure for preparing to work with WebAPI:

1. The merchant must be registered on the my.checkbox.ua portal. Registration instructions are available at the [link](#).
2. After registering on the portal, the merchant must register (if not yet registered) a business unit (his point of sale) through the portal's functions.
3. After registration of the business unit (point of sale), the merchant begins to register the cash register. The portal will automatically register this cash register in the Tax Service.
4. After registering the cash register, the merchant registers the cashier.
When registering a cashier, it is necessary to specify the serial number of the key certificate and other data of an individual or to read data from the EDS key, which will be used to sign transactions. EDS can be generated at any Accredited Signature Certification Authority (ALICK) or by contacting our support service. When registering, you must specify the cashier's login and password and save them for future use. The following transaction signing mechanisms are currently available:

- Checkbox.Signer (Checkbox.Підпис) - a utility that can be installed on any computer with Internet access. You can use it on a [secure cloud service](#) or [install it locally](#).
- HSM – certified cloud service for generating and storing DepositSign keys (if you choose HSM as the signature mechanism, there is no need to install any software for working with EDS).

For testing: Test data will be available when registering on the [portal](#), in the cashier and cash register sections. When using test cash register and cashier data, requests should be sent to <https://api.checkbox.ua>

5. After registration, the merchant can make API requests.

Work with WebAPI

General

A current and complete description of the API can be viewed online at:
or <https://api.checkbox.ua/api/redoc> (ReDoc),
or <https://api.checkbox.ua/api/docs> (Swagger).

The address of the working (operational) server: <https://api.checkbox.ua>

Current version of API - v1.12.2+5f289668.

Below is the sequence and specification of the main API methods.

API methods in the required sequence of their invocation

POST /api/v1/cashier/signin – user login (cashier) using login and password

Authorization using the cashier's login and password

To receive an access token to the Checkbox API, you need to specify the login and password of the cashier in the POST body of the **/api/v1/cashier/signin** request. Additionally, the name of your integration and its version (optional) can be specified in the request header.

In response to the request, you will receive a jwt authorization token, substituting which in the request headers of other methods you will be able to use them on behalf of the cashier who was authorized.

Headers

```
accept: application/json
X-Client-Name: <назва інтеграції(опціонально)>
X-Client-Version: <версія інтеграції(опціонально)>
X-Access-Key: <ключ-ідентифікатор інтеграції>
```

Parameters

-

Request body

```
{
  "login": "cashier login",
  "password": "cashier password"
}
```

Responses

200 - Successful Response

```
{
  "type": "bearer",
  "token_type": "bearer",
  "access_token":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1IjoiaXBVbJIIiwianRpIjoiaM2U3MDk4OTYtOGM4YS00ZTcwLTlhNGYtZWRLZmYyZThlMjBkIiwic3ViIjoiaMZhOGEZNDgtMGZjOC00NTViLTlhMjBkODk1MzNiNTM5ZQxIiwibmJmIjoxNjUyNzI5ODkxLCJpYXQiOiJlE2NTI3Mjk4OTF9.ReYF8FicTFZiyi9s6NF6n3Y-VInbYa7_VatIs58Vwq"
```

```
{}
}
```

400 - Error: Bad Request

If an error is made in the formation of the content of the request body and the server cannot parse it, you will receive a 400 Error: Bad Request with the message:

```
{
  "message": "There was an error parsing the body"
}
```

403 - Error: Forbidden

If the cashier's credentials were entered incorrectly, you will receive a 403 Error: Forbidden error and a message in the `"message"` field: `"Invalid login or password"` in the body of the response from the Checkbox server.

```
{
  "message": "Невірний логін або пароль"
}
```

403 - Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the `"message"` field: `"Invalid access key"` in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

422 - Error: Unprocessable Entity

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{
  "detail": [
    {
      "loc": [
        "body",
        "payload",
        "password"
      ],
      "msg": "ensure this value has at least 1 characters",
      "type": "value_error.any_str.min_length",
      "ctx": {
        "limit_value": 1
      }
    }
  ]
}
```

```
}
],
"message": "Validation error"
}
```

503 - Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```
{"message": "Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}
```

Authorization using the cash register license key and the cashier's PIN code

To receive an access token to the Checkbox API, you need to specify the cash register license key in the POST header of the **/api/v1/cashier/signinPinCode** request, and the cashier's PIN code in the body of the request.

Headers

```
accept: application/json
X-Client-Name: <назва інтеграції(опціонально)>
X-Client-Version: <версія інтеграції(опціонально)>
X-Access-Key: <ключ-ідентифікатор інтеграції>
X-License-Key: <ключ ліцензії каси>
```

Parameters

-

Request body

```
{
  "pin_code": "cashier pin-code"
}
```

Responses

200 - Successful Response

```
{
  "type": "bearer",
  "token_type": "bearer",
  "access_token":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1IjoiQVBJIiwianRpIjoiMmI0YjZkNTktNDNlNS00Yzg3LWl3NjktMWZhZW1ZWQ0ZWFiIiwic3ViIjoiNmzhOGEzNDgtMGZjOC00NTViLTljMjktODk1MzNiNTM5YzQxIiwibmJmIjoxNjUyODcyNTcyLCJpYXQiOiJlNTI4NzI1NzJ9.1hr8I1I6RR40PbElfdD0Qz7x1AY--IjwRQ9NGn28voW"
}
```

400 - Error: Bad Request

If an error is made in the formation of the content of the request body and the server cannot parse it, you will receive a 400 Error: Bad Request with the message:

```
{
  "message": "There was an error parsing the body"
}
```

401 - Error: Unauthorized

If you specify an incorrect cash register license key, the server will respond with an error 401 Error: Unauthorized with the message "message": "Invalid cash register license key"

```
{
  "message": "Невірний ключ ліцензії каси"
}
```

403 - Error: Forbidden

If the cashier's PIN code was entered incorrectly, you will receive a corresponding error 403 Error: Forbidden and a message in the "message" field: "Invalid PIN" in the body of the response from the Checkbox server.

```
{
  "message": "Невірний пінкод"
}
```

403 - Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

422 - Error: Unprocessable Entity

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{
  "detail": [
    {
      "loc": [
        "body",
        "payload",
        "password"
      ],
      "msg": "ensure this value has at least 1 characters",
      "type": "value_error.any_str.min_length",
    }
  ]
}
```

```

    "ctx": {
      "limit_value": 1
    }
  },
  "message": "Validation error"
}

```

503 - Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```

{"message": "Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}

```

POST /api/v1/shifts – opening a new shift by a user (cashier)

You can open a shift online or offline. To open a shift in offline mode, you must first execute the [GO OFFLINE](#) command, which will be described later, and then you must specify a free fiscal code and fiscal date in the body of the request to create a change. The mechanism for obtaining such fiscal codes for creating offline transactions will be described in the [ASK OFFLINE CODES](#) method.

You can also give the shift a unique identifier in UUID format. If this identifier is not present in the body of the request, the UUID will be automatically assigned to the change after the request is sent to the Checkbox server. To create a shift in online mode, you don't need to specify a fiscal code and fiscal date (the date will automatically be current).

By default, you should work for the maximum amount of time in online mode, as there is a limit on offline use - 36 consecutive hours and no more than 168 hours per month. It is the responsibility of the client using the API to ensure that this rule is followed.

To open a shift, you need to specify the license key of the cash register located in the same point of sale as the cashier. The shift object is created in the "CREATED" status and the shift opening transaction ("initial_transaction" field).

To transfer the shift to the OPENED status, it is necessary that the transaction be signed using EDS and delivered to the Tax Service (this function is performed by the signing agent), it usually takes a few seconds. After creating a request, it is necessary to monitor the status of the shift until it changes to OPENED or CLOSED.

The status of the shift can be monitored by using a GET request `/api/v1/shifts/{shift_id}`, where {shift_id} is the shift ID.

If the shift has changed to CLOSED status, it means that the shift can't be opened. Details of the reason for the failure to create a shift are in the initial_transaction field. After the shift is successfully opened, you can create receipts or close it.

Headers

```

accept: application/json
X-Client-Name: <назва інтеграції(опціонально)>
X-Client-Version: <версія інтеграції(опціонально)>

```

X-Access-Key: <ключ-ідентифікатор інтеграції>

X-License-Key: <ключ ліцензії каси>

Authorization: Bearer <токен авторизації>

Parameters

-

Request body

```
{
  "id": "the unique identifier of the shift in the format UUID",
  "fiscal_code": "<unused fiscal code>",
  "fiscal_date": "<fiscal date in ISO 8601 format according to the template
YYYY-MM-DDThh:mm:ss.ssssss±hh:mm>"
}
```

Responses

200 - Successful Response

```
{
  "id": "a8d6cd50-b151-4598-8259-5b5e15655eb0",
  "serial": 10,
  "status": "CREATED",
  "z_report": null,
  "opened_at": null,
  "closed_at": null,
  "initial_transaction": {
    "id": "93e42158-66dd-4831-ac7a-165d96658b67",
    "type": "SHIFT_OPEN",
    "serial": 43,
    "status": "PENDING",
    "request_signed_at": null,
    "request_received_at": null,
    "response_status": null,
    "response_error_message": null,
    "response_id": null,
    "offline_id": null,
    "created_at": "2022-06-22T12:22:09.202431+00:00",
    "updated_at": "2022-06-22T12:22:09.202431+00:00",
    "previous_hash": "2c78452055ec4fe1bd62a20e8872736ee42c93ac105f734323b7e53b47a38a9b"
  },
  "closing_transaction": null,
  "created_at": "2022-06-22T12:22:09.202431+00:00",
  "updated_at": null,
  "balance": {
    "initial": 455000,
    "balance": 455000,
    "cash_sales": 0,
    "card_sales": 0,
    "cash_returns": 0,
    "card_returns": 0,
  }
}
```

```

    "service_in": 0,
    "service_out": 0,
    "updated_at": null
  },
  "taxes": [
    {
      "id": "0ea863cc-72ea-4802-8b53-fdd020896823",
      "code": 8,
      "label": "Без ПДВ",
      "symbol": "3",
      "rate": 0,
      "extra_rate": 0,
      "included": true,
      "created_at": "2022-03-22T15:19:17+00:00",
      "updated_at": null,
      "sales": 0,
      "returns": 0,
      "sales_turnover": 0,
      "returns_turnover": 0
    }
  ],
  "cash_register": {
    "id": "cb6905fd-5296-45ba-be4d-79302cf43a59",
    "fiscal_number": "TEST373378",
    "active": true,
    "created_at": "2021-12-27T03:30:50+00:00",
    "updated_at": "2022-06-21T17:57:13+00:00"
  },
  "cashier": {
    "id": "19ff96e0-993b-4403-a39f-42274484e3a9",
    "full_name": "Тестовий касир",
    "nin": "000000000",
    "key_id": "test_6323DqORy38jv2mu",
    "signature_type": "TEST",
    "permissions": null,
    "created_at": "2021-12-27T03:30:50+00:00",
    "updated_at": "2021-12-28T11:40:05+00:00",
    "certificate_end": null,
    "blocked": null
  }
}

```

400 Error: Bad Request

If the cashier's signature is not running, then you will receive a 400 Error: Bad Request with the message:

```

{
  "message": "CheckВох Підпис неактивний, запустіть його, будь ласка"
}

```

400 - Error: Bad Request

If in the header of the request you specify the license key of a cash register on which a change has already been opened by another cashier, you will receive a 400 Error: Bad Request error from the server with a message in the body of the response "message": "The cash register is occupied by another cashier"

```
{
  "message": "Каса зайнята іншим касиром"
}
```

401 - Error: Unauthorized

If the cashier is not authorized (his access token has been revoked), the server will return a 401 Error: Unauthorized with a message in the response body "message": "Invalid access token".

```
{
  "message": "Невірний токен доступу"
}
```

403 - Error: Forbidden

If the cashier is deactivated by the user, the server will return the error 403 Error: Forbidden and the message in the body of the "message" response: "Access is denied because the cashier is deactivated"

```
{
  "message": "Доступ заборонено, оскільки касира деактивовано"
}
```

403 - Error: Forbidden

If the cashier is active, but the authorization was not performed (the authorization token was not passed in the request header), the server will return the error 403 Error: Forbidden and the message in the body of the response "message": "Not authenticated"

```
{
  "message": "Not authenticated"
}
```

403 - Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

422 - Validation Error

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{
  "detail": [
    {
      "loc": [
        "<місцезнаходження помилки>"
      ],
      "msg": "<опис помилки>",
      "type": "<тип помилки>"
    }
  ],
  "message": "<короткий опис помилки>"
}
```

503 - Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```
{"message":"Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}
```

POST/api/v1/receipts/sell – creation of a receipt, its fiscalization and delivery to the client via email or message

The receipt is created at the level of transaction processing, signed by the signature agent and then sent to the buyer by email or message, or a printed copy of the fiscal receipt is issued.

A receipt can be created both offline and online mode. The [/api/v1/receipts/sell](#) method is designed to create a receipt both online and offline (but without the ability to explicitly specify an offline fiscal code or an offline fiscal date. If the cash register is offline, the server will automatically substitute the current date and free offline code). The [/api/v1/receipts/sell-offline](#) method is designed to create a receipt offline and allows you to explicitly specify both the fiscal date and the fiscal code.

Create Receipt

The minimum data set for creating a receipt includes product code, product name, price, quantity, payment type and payment amount. But in general, the receipt can contain many additional parameters, which will be described in the example.

Headers

```
accept: application/json
X-Client-Name: <назва інтеграції(опціонально)>
X-Client-Version: <версія інтеграції(опціонально)>
X-Access-Key: <ключ-ідентифікатор інтеграції>
Content-Type: application/json
```

Authorization: Bearer <токен авторизації>

Request body

```

{
  "id": "<UUID of receipt>",
  "cashier_name": "<cashier name>",
  "departament": "<department name>",
  "goods": [{
    "good": {
      "code": "<product code>",
      "name": "<product name>",
      "barcode": "<product bar-code>",
      "excise_barcode": "<digital designation of the barcode of the excise stamp>",
      "excise_barcodes": ["<digital designation of the barcode of the excise stamp 1>", "<digital designation of the barcode of the excise stamp 2>"],
      "header": "<product header 1>",
      "footer": "<product footer 1>",
      "price": <price in kopiykas (1 HRN = 100 kopiykas)>,
      "tax": [<digital or letter code of the tax rate (pre-programmed in the personal account). If several taxes need to be applied to the product - specify through whom>],
      "uktzed": "<code UKTZED>"
    },
    "good_id": "<UUID product>",
    "quantity": <quantity in thousands, 1 pc = 1000>,
    "is_return": <true / false flag that determines if this is a return check>,
    "discounts": [{
      "type": "<type of discount - \"DISCOUNT\" / \"EXTRA_CHARGE\" (DISCOUNT/CHARGE)>",
      "mode": "<discount mode \"VALUE\" / \"PERCENT\" (ABSOLUTE VALUE/PERCENT DISCOUNT)>",
      "value": <discount value>,
      "tax_code": [<the tax code that applies to the product. It is necessary to indicate, for the correct calculation of the discount, if the product has a tax rate>],
      "tax_codes": [<tax rate codes applied to the product (if > 1). You must specify a comma for the correct calculation of the discount if the product has a tax rate >],
      "name": "<the name of the discount or allowance>"
    }]
  },
  {
    "good": {
      <block with data on the second product, similar in structure to the previous one. Good blocks must be repeated as many times as you have goods in the receipt>
    }
  }
],
  "delivery": {
    "email": "<e-mail address of the client to send a copy of the receipt>",
    "emails": ["<e-mail of the client for sending a copy of the receipt 1>", "<e-mail of the client for sending a copy of the receipt 2>"],
    "phone": "<the customer's phone number for sending a copy of the receipt via message/Viber (for the function to work, the corresponding service must be configured and paid for)>. Format 380..."
  },
},

```

```

"discounts": [{
  "type": "<type of discount - \"DISCOUNT\" / \"EXTRA_CHARGE\" (DISCOUNT/CHARGE)>",
  "mode": "<discount mode \"VALUE\" / \"PERCENT\" (ABSOLUTE VALUE/PERCENT DISCOUNT)>",
  "value": <discount value>,
  "tax_code": [<the tax code that applies to the product. It is necessary to indicate,
for the correct calculation of the discount, if the product has a tax rate>],
  "tax_codes": [<tax rate codes applied to the product (if > 1). You must specify a
comma for the correct calculation of the discount if the product has a tax rate >,
  "name": "<the name of the discount or allowance>"}]],
"payments": [{
  "type": "<\"CASH\" / \"CASHLESS\" (CASH / CASHLESS SETTLEMENT (card, certificates,
bonuses, etc.))>",
  "pawnshop_is_return": <true / false A sign that this receipt is a pawnbroker's
expense check. You dont need to specify the parameter for a regular receipt>,
  "value": <payment amount in kopiykas>,
  "label": "<the text name of the payment form>",
  "code": <payment number (only for non-cash payments)>,
  "commission": <commission (only for non-cash payments)>,
  "card_mask": "<card mask (no more than 19 characters) (only for non-cash payments)>",
  "bank_name": "<bank name (only for non-cash payments)>",
  "auth_code": "<bank transaction authorization code (only for non-cash payments)>",
  "rrn": "<Reference Retrieval Number - unique identifier of a bank transaction (only
for non-cash payments)>",
  "payment_system": "<payment system (only for non-cash payments)>",
  "owner_name": "<name of the owner of the electronic payment instrument (only for
non-cash payments)>",
  "terminal": "<information about the payment terminal (only for non-cash payments)>",
  "acquirer_and_seller": "<the identifier of the acquirer and the merchant, or other
details that allow them to be identified (only for non-cash payments)>",
  "receipt_no": "<bank receipt number (only for non-cash payments)>",
  "signature_required": <true / false flag that determines whether the column should be
available for the signature of the cardholder and the cashier>
},
{
  <a block with data on an additional form of payment according to the template
described above (if there are several forms of payment in the check)>
}
],
"rounding": <true / false activation of the rounding mode (for it to work in the payments
block, the amount already rounded according to the rules of the National Bank of Ukraine
must be specified> ,
"header": "<receipt header>",
"footer": "<receipt footer>",
"barcode": "<receipt varcode>",
"order_id": "<UUID order (indicated in the case of working with the API in order
mode)>",
"related_receipt_id": "<UUID of linked receipt>",
"previous_receipt_id": "<UUID of previous check>",
"technical_return": <true / false flag, which can be used to determine that this check
is a technical (erroneous) return check>,

```

```

"context": {
  "additionalProp1": "<additional property 1>",
  "additionalProp2": "<additional property 2>",
  "additionalProp3": "<additional property 3>"
},
"is_pawnshop": <true / false flag that can be used to indicate that this receipt is a
pawnbroker's check>,
"custom": {
  "html_global_header": "<global header for receipt of html/pdf visualizations>",
  "html_global_footer": "<global footer for receipt html/pdf visualizations>",
  "html_body_style": "<page background with a receipt>",
  "html_receipt_style": "<block style with receipt>",
  "html_ruler_style": "<separator style with stars between receipt blocks",
  "html_light_block_style": "<light block style, this is the entire basement of the
receipt and cells with cost and quantity>",
  "text_global_header": "<global header for png/txt visualization receipt>",
  "text_global_footer": "<global footer for receipt png/txt visualizations>"
}
}

```

Responses

201 - Successful Response

```

{
  "id": "5b7d533c-97c8-4db7-8f5f-4b3aaca44a77",
  "type": "SELL",
  "transaction": {
    "id": "0e79f4df-aa59-4c49-a683-94d0b9aa17d4",
    "type": "RECEIPT",
    "serial": 72,
    "status": "PENDING",
    "request_signed_at": null,
    "request_received_at": null,
    "response_status": null,
    "response_error_message": null,
    "response_id": null,
    "offline_id": null,
    "created_at": "2022-06-27T08:24:46.501940+00:00",
    "updated_at": "2022-06-27T08:24:46.501940+00:00",
    "previous_hash": "484994e69cd42fd21d8a00611aac1b2c4fca34a7325c0580c0650a1580f8b346"
  },
  "serial": 40,
  "status": "CREATED",
  "goods": [
    {
      "good": {
        "code": "Код товару 1",
        "barcode": "A12345",
        "name": "Назва товару 1",

```

```

"excise_barcodes": [
    "B12345",
    "C12345"
],
"header": "Хедер товару 1",
"footer": "Футер товару 1",
"uktzed": "0701",
"price": 123
},
"good_id": "cca43968-0bc9-4bb4-a6bd-cba39f81b039",
"sum": 123,
"quantity": 1000,
"is_return": false,
"taxes": [
{
    "id": "15e6a708-3a82-4a1e-9353-93f6912ebc16",
    "code": 1,
    "label": "ПДВ",
    "symbol": "A",
    "rate": 20,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-05-31T23:34:24+00:00",
    "updated_at": null,
    "value": 19,
    "extra_value": 0
},
{
    "id": "77815b4c-1f8f-47dc-b9f3-fbfbab212c71f",
    "code": 8,
    "label": "Без ПДВ",
    "symbol": "3",
    "rate": 0,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-03-22T15:19:17+00:00",
    "updated_at": null,
    "value": 0,
    "extra_value": 0
}
],
"discounts": [
{
    "type": "DISCOUNT",
    "mode": "VALUE",
    "value": 1,
    "tax_code": null,
    "tax_codes": [
        1,
        8
    ]
}
]

```

```

    ],
    "name": "Назва знижки",
    "sum": -1
  }
],
},
{
  "good": {
    "code": "Код товару 2",
    "barcode": "A6789",
    "name": "Назва товару 2",
    "excise_barcodes": [
      "B12345",
      "C12345"
    ],
    "header": "Хедер товару 2",
    "footer": "Футер товару 2",
    "uktzed": "0701",
    "price": 456
  },
  "good_id": "45afc0ec-882d-48f0-9418-b398356395fc",
  "sum": 456,
  "quantity": 1000,
  "is_return": false,
  "taxes": [
    {
      "id": "9f528c6f-4a5e-4068-bb3e-12cc20a68880",
      "code": 8,
      "label": "Без ПДВ",
      "symbol": "3",
      "rate": 0,
      "extra_rate": 0,
      "included": true,
      "created_at": "2022-03-22T15:19:17+00:00",
      "updated_at": null,
      "value": 0,
      "extra_value": 0
    }
  ],
  "discounts": [
    {
      "type": "EXTRA_CHARGE",
      "mode": "PERCENT",
      "value": 1,
      "tax_code": null,
      "tax_codes": [
        8
      ],
      "name": "Назва надбавки",
      "sum": 5
    }
  ]
}

```

```

    }
  ]
}
],
"payments": [
  {
    "type": "CASH",
    "pawnshop_is_return": false,
    "value": 50,
    "label": "Готівка"
  },
  {
    "type": "CASHLESS",
    "pawnshop_is_return": false,
    "code": 1,
    "value": 500,
    "commission": null,
    "label": "Карта",
    "card_mask": "**** * 5555",
    "bank_name": "Приватбанк",
    "auth_code": "7777",
    "rrn": "98765",
    "payment_system": "LiqPay",
    "owner_name": "Покупець 1",
    "terminal": "Термінал 1",
    "acquiring": "Privatbank",
    "acquirer_and_seller": "Privatbank",
    "receipt_no": "123456",
    "signature_required": true
  }
],
"total_sum": 554,
"sum": 554,
"total_payment": 550,
"total_rest": 0,
"rest": 0,
"fiscal_code": null,
"fiscal_date": null,
"delivered_at": null,
"created_at": "2022-06-27T08:24:46.501940+00:00",
"updated_at": null,
"taxes": [
  {
    "id": "13072f5d-06b1-44fb-8e45-23dbd8992e67",
    "code": 1,
    "label": "ПДВ",
    "symbol": "A",
    "rate": 20,
    "extra_rate": 0,
    "included": true,

```

```

    "created_at": "2022-05-31T23:34:24+00:00",
    "updated_at": null,
    "value": 19,
    "extra_value": 0
  },
  {
    "id": "e47a1102-1884-43d4-9a13-8568d9822459",
    "code": 8,
    "label": "Без ПДВ",
    "symbol": "3",
    "rate": 0,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-03-22T15:19:17+00:00",
    "updated_at": null,
    "value": 0,
    "extra_value": 0
  }
],
"discounts": [
  {
    "type": "DISCOUNT",
    "mode": "PERCENT",
    "value": 5,
    "tax_code": null,
    "tax_codes": [
      8
    ],
    "name": "назва знижки на чек",
    "sum": -29
  }
],
"order_id": null,
"header": "хедер чека",
"footer": "футер чека",
"barcode": "AB12345",
"custom": null,
"is_created_offline": false,
"is_sent_dps": false,
"sent_dps_at": null,
"tax_url": null,
"related_receipt_id": "0642065e-c205-41aa-8376-7064be42183e",
"technical_return": false,
"currency_exchange": null,
"shift": {
  "id": "b992a702-9aec-4bc6-86fc-9030eda4b8ee",
  "serial": 17,
  "status": "OPENED",
  "z_report": null,
  "opened_at": "2022-06-26T15:29:47.864936+00:00",

```

```

"closed_at": null,
"initial_transaction": {
  "id": "ba54df9e-305d-4bad-a405-049c761c4608",
  "type": "SHIFT_OPEN",
  "serial": 57,
  "status": "DONE",
  "request_signed_at": "2022-06-26T15:29:47.974951+00:00",
  "request_received_at": "2022-06-26T15:29:48.036582+00:00",
  "response_status": "OK",
  "response_error_message": null,
  "response_id": "TEST-odtJgB",
  "offline_id": null,
  "created_at": "2022-06-26T15:29:47.864936+00:00",
  "updated_at": "2022-06-26T15:29:48.061802+00:00",
  "previous_hash": "7cff99f6c2fe224bf6c975f02dc7cc03a75643e2bc054d05a269a5439a448da2"
},
"closing_transaction": null,
"created_at": "2022-06-26T15:29:47.864936+00:00",
"updated_at": "2022-06-26T15:29:48.070090+00:00",
"balance": {
  "initial": 455020,
  "balance": 455114,
  "cash_sales": 94,
  "card_sales": 456956,
  "cash_returns": 0,
  "card_returns": 0,
  "service_in": 0,
  "service_out": 0,
  "updated_at": "2022-06-27T08:21:46.112322+00:00"
},
"taxes": [
  {
    "id": "13072f5d-06b1-44fb-8e45-23dbd8992e67",
    "code": 1,
    "label": "ПДВ",
    "symbol": "A",
    "rate": 20,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-05-31T23:34:24+00:00",
    "updated_at": null,
    "sales": 19,
    "returns": 0,
    "sales_turnover": 116,
    "returns_turnover": 0
  },
  {
    "id": "948549a0-e719-4d52-ae44-f50787b3351f",
    "code": 2,
    "label": "ПДВ 7%",

```

```
"symbol": "Б",
"rate": 7,
"extra_rate": 0,
"included": true,
"created_at": "2022-02-16T13:25:00+00:00",
"updated_at": null,
"sales": 0,
"returns": 0,
"sales_turnover": 0,
"returns_turnover": 0
},
{
  "id": "f1e49ad9-533d-4b5c-a1ec-935db06d8f02",
  "code": 3,
  "label": "ПДВ 14%",
  "symbol": "Б",
  "rate": 14,
  "extra_rate": 0,
  "included": true,
  "created_at": "2022-02-17T23:51:18+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "4cf3f4e1-1190-46da-b2cc-fdeb35f4f6da",
  "code": 4,
  "label": "ПДВ+Акциз",
  "symbol": "Г",
  "rate": 20,
  "extra_rate": 5,
  "included": true,
  "created_at": "2022-03-22T15:19:02+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "78d89ba8-cc0a-450a-9ccf-3e6014d7da2d",
  "code": 5,
  "label": "Акциз",
  "symbol": "Д",
  "rate": 0,
  "extra_rate": 5,
  "included": true,
  "created_at": "2022-02-16T13:36:10+00:00",
```

```
"updated_at": null,
"sales": 0,
"returns": 0,
"sales_turnover": 0,
"returns_turnover": 0
},
{
  "id": "8c57764a-28a8-48e6-9071-a5875655f045",
  "code": 6,
  "label": "B3",
  "symbol": "E",
  "rate": 1,
  "extra_rate": 0,
  "included": true,
  "created_at": "2022-02-16T13:36:17+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "fd3f4573-58f2-4499-9fb9-2feccd0e08c64",
  "code": 7,
  "label": "ПДВ 0%",
  "symbol": "Ж",
  "rate": 0,
  "extra_rate": 0,
  "included": true,
  "created_at": "2022-02-23T18:59:04+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "e47a1102-1884-43d4-9a13-8568d9822459",
  "code": 8,
  "label": "Без ПДВ",
  "symbol": "З",
  "rate": 0,
  "extra_rate": 0,
  "included": true,
  "created_at": "2022-03-22T15:19:17+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 454054,
  "returns_turnover": 0
}
```

```

    },
    "cash_register": {
      "id": "cb6905fd-5296-45ba-be4d-79302cf43a59",
      "fiscal_number": "TEST373378",
      "active": true,
      "created_at": "2021-12-27T03:30:50+00:00",
      "updated_at": "2022-06-26T23:40:03+00:00"
    },
    "cashier": {
      "id": "19ff96e0-993b-4403-a39f-42274484e3a9",
      "full_name": "Тестовий касир",
      "nin": "000000000",
      "key_id": "test_6323DqORy38jv2mu",
      "signature_type": "TEST",
      "permissions": {
        "orders": true
      },
      "created_at": "2021-12-27T03:30:50+00:00",
      "updated_at": "2021-12-28T11:40:05+00:00",
      "certificate_end": null,
      "blocked": null
    }
  },
  "control_number": null
}

```

400 Error: Bad Request

If the cashier's signature is not running, then you will receive a 400 Error: Bad Request with the message:

```

{
  "message": "CheckBox Підпис неактивний, запустіть його, будь ласка"
}

```

400 Error: Bad Request

If you try to create a check and the change is closed, you will receive a 400 Error: Bad Request and the following message:

```

{
  "message": "Зміну не відкрито"
}

```

400 Error: Bad Request

If you enter an incorrect or non-existent order number, you will receive a 400 Error: Bad Request and a message like this:

```
{  
  "message": "Вказано невідомий ідентифікатор замовлення"  
}
```

400 Error: Bad Request

If you specify an id for the receipt that was previously used to create another receipt, you will receive a 400 Error: Bad Request and a message like this:

```
{  
  "message": "Вказаний id чеку вже існує"  
}
```

By specifying the id of the receipt when it is created on your side, you can protect yourself from repeated erroneous fiscalization of the same receipt, since re-sending a request to create a receipt with an id identical to the one previously used will result in an error and the request will not be fulfilled.

400 Error: Bad Request

If the id of the previous receipt is incorrectly specified in the request, you will receive a 400 Error: Bad Request and a message of the following type:

```
{  
  "message": "id попереднього чеку відрізняється від останнього збереженого чеку"  
}
```

passing this id to the payload of the receipt is optional. It allows you to monitor the chain of receipt that you transfer to Checkbox and be sure that the previous receipt has already reached the server, and the chain of transmission of transactions remains intact and the sequence is not broken.

400 Error: Bad Request

If you specify an amount less than the price of the product in the payment block, you will receive a 400 Error: Bad Request and a message like this:

```
{  
  "message": "Сума платежів не може бути меншою ніж сума чеку"  
}
```

400 Error: Bad Request

If an amount different from the total price of the goods is specified in the return receipt in the payment block, you will receive a 400 Error: Bad Request and a message of the following type:

```
{  
  "message": "Сума платежів повинна дорівнювати сумі чеку повернення (4544.00)"  
}
```

400 Error: Bad Request

If you try to withdraw more cash from the cash register than is available (when creating a return check), you will receive a 400 Error: Bad Request and a message like this:

```
{
  "message": "Неможливо виконати операцію, оскільки в касі недостатньо коштів (<сума, яку ви хочете вилучити> > <сума готівки у касі>)"
}
```

401 Error: Unauthorized

If the cashier is not authorized (his access token has been revoked), the server will return a 401 Error: Unauthorized with a message in the response body "message": "Invalid access token".

```
{
  "message": "Невірний токен доступу"
}
```

403 Error: Forbidden

If the cashier is deactivated by the user, the server will return the error 403 Error: Forbidden and the message in the body of the "message" response: "Access is denied because the cashier is deactivated"

```
{
  "message": "Доступ заборонено, оскільки касира деактивовано"
}
```

403 Error: Forbidden

If the cashier is active, but the authorization was not performed (the authorization token was not passed in the request header), the server will return the error 403 Error: Forbidden and the message in the body of the response "message": "Not authenticated"

```
{
  "message": "Not authenticated"
}
```

403 Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

422 Validation Error

If the request is formed incorrectly, you will receive a 422 Validation Error error with the content of the following form, where the approximate location and description of the error will be indicated:

```
{
```

```

"detail": [
  {
    "loc": [
      "<місцезнаходження помилки>"
    ],
    "msg": "<опис помилки>",
    "type": "<тип помилки>"
  }
],
"message": "<короткий опис помилки>"
}

```

503 Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```

{"message": "Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}

```

Create offline Receipt

Before creating an offline receipt, the cash register must be in offline mode, otherwise you will receive a form error from the API `"message": "Cash register should be in manual offline mode!"`. The method of switching to offline mode is described in the corresponding section of this document.

The `/api/v1/receipts/sell-offline` method differs from the `/api/v1/receipts/sell` method by the presence of the `"fiscal_code"` and `"fiscal_date"`: fields, which are mandatory and are specified at the end of the receipt payload.

Headers

```

accept: application/json
X-Client-Name: <назва інтеграції(опціонально)>
X-Client-Version: <версія інтеграції(опціонально)>
X-Access-Key: <ключ-ідентифікатор інтеграції>
Content-Type: application/json
Authorization: Bearer <токен авторизації>

```

Request body

```

{
  "id": "<UUID of receipt>",
  "cashier_name": "<cashier name>",
  "departament": "<department name>",
  "goods": [{
    "good": {
      "code": "<product code>",
      "name": "<porduct name>",
      "barcode": "<product bar-code>",
      "excise_barcode": "<digital designation of the barcode of the excise stamp>",
      "excise_barcode": ["<digital designation of the barcode of the excise stamp

```

```

1>", "<digital designation of the barcode of the excise stamp 2>"],
    "header": "<product header 1>",
    "footer": "<product footer 1>",
    "price": "<price in kopykas (1 HRN = 100 kopykas)>",
    "tax": "[<digital or letter code of the tax rate (pre-programmed in the personal
account). If several taxes need to be applied to the product - specify through whom>]",
    "uktzed": "<code UKTZED>"
  },
  "good_id": "<UUID product>",
  "quantity": "<quantity in thousands, 1 pc = 1000> ",
  "is_return": "<true / false flag that determines if this is a return check>",
  "discounts": [{
    "type": "<type of discount - \"DISCOUNT\" / \"EXTRA_CHARGE\" (DISCOUNT/CHARGE)>",
    "mode": "<discount mode \"VALUE\" / \"PERCENT\" (ABSOLUTE VALUE/PERCENT
DISCOUNT)>",
    "value": "<discount value>",
    "tax_code": "[<the tax code that applies to the product. It is necessary to
indicate, for the correct calculation of the discount, if the product has a tax rate>]",
    "tax_codes": "[<tax rate codes applied to the product (if > 1). You must specify
a comma for the correct calculation of the discount if the product has a tax rate >]",
    "name": "<the name of the discount or allowance>"
  }]
},
{
  "good": {
    "<block with data on the second product, similar in structure to the previous
one. Good blocks must be repeated as many times as you have goods in the receipt>"
  }
}
],
"delivery": {
  "email": "<e-mail address of the client to send a copy of the receipt>",
  "emails": ["<e-mail of the client for sending a copy of the receipt 1>", "<e-mail of
the client for sending a copy of the receipt 2>"],
  "phone": "<the customer's phone number for sending a copy of the receipt via
message/Viber (for the function to work, the corresponding service must be configured and
paid for)>. Format 380..."
},
"discounts": [{
  "type": "<type of discount - \"DISCOUNT\" / \"EXTRA_CHARGE\" (DISCOUNT/CHARGE)>",
  "mode": "<discount mode \"VALUE\" / \"PERCENT\" (ABSOLUTE VALUE/PERCENT DISCOUNT)>",
  "value": "<discount value>",
  "tax_code": "[<the tax code that applies to the product. It is necessary to indicate,
for the correct calculation of the discount, if the product has a tax rate>]",
  "tax_codes": "[<tax rate codes applied to the product (if > 1). You must specify a
comma for the correct calculation of the discount if the product has a tax rate >]",
  "name": "<the name of the discount or allowance>"}]],
"payments": [{
  "type": "<\"CASH\" / \"CASHLESS\" (CASH / CASHLESS SETTLEMENT (card, certificates,
bonuses, etc.))>",

```

```

    "pawnshop_is_return": <true / false A sign that this receipt is a pawnbroker's
expense check. You dont need to specify the parameter for a regular receipt>,
    "value": <payment amount in kopyiykas>,
    "label": "<the text name of the payment form>",
    "code": <payment number (only for non-cash payments)>,
    "commission": <commission (only for non-cash payments)>,
    "card_mask": "<card mask (no more than 19 characters) (only for non-cash payments)>",
    "bank_name": "<bank name (only for non-cash payments)>",
    "auth_code": "<bank transaction authorization code (only for non-cash payments)>",
    "rrn": "<Reference Retrieval Number - unique identifier of a bank transaction (only
for non-cash payments)>",
    "payment_system": "<payment system (only for non-cash payments)>",
    "owner_name": "<name of the owner of the electronic payment instrument (only for
non-cash payments)>",
    "terminal": "<information about the payment terminal (only for non-cash payments)>",
    "acquirer_and_seller": "<the identifier of the acquirer and the merchant, or other
details that allow them to be identified (only for non-cash payments)>",
    "receipt_no": "<bank receipt number (only for non-cash payments)>",
    "signature_required": <true / false flag that determines whether the column should be
available for the signature of the cardholder and the cashier>
  },
  {
    <a block with data on an additional form of payment according to the template
described above (if there are several forms of payment in the check)>
  }
],
"rounding": <true / false activation of the rounding mode (for it to work in the payments
block, the amount already rounded according to the rules of the National Bank of Ukraine
must be specified> ,
"header": "<receipt header>",
"footer": "<receipt footer>",
"barcode": "<receipt varcode>",
"order_id": "<UUID order (indicated in the case of working with the API in order
mode)>",
"related_receipt_id": "<UUID of linked receipt>",
"previous_receipt_id": "<UUID of previous check>",
"technical_return": <true / false flag, which can be used to determine that this check
is a technical (erroneous) return check>,
"context": {
  "additionalProp1": "<additional property 1>",
  "additionalProp2": "<additional property 2>",
  "additionalProp3": "<additional property 3>"
},
"is_pawnshop": <true / false flag that can be used to indicate that this receipt is a
pawnbroker's check>,
"custom": {
  "html_global_header": "<global header for receipt of html/pdf visualizations>",
  "html_global_footer": "<global footer for receipt html/pdf visualizations>",
  "html_body_style": "<page background with a receipt>",
  "html_receipt_style": "<block style with receipt>",

```

```

    "html_ruler_style": "<separator style with stars between receipt blocks",
    "html_light_block_style": "<light block style, this is the entire basement of the
receipt and cells with cost and quantity>",
    "text_global_header": "<global header for png/txt visualization receipt>",
    "text_global_footer": "<global footer for receipt png/txt visualizations>"
  },
  "fiscal_code": "<unused offline code>",
  "fiscal_date": "<fiscal date in ISO 8601 format according to the template
YYYY-MM-DDThh:mm:ss.ssssss±hh:mm>"
}

```

Responses

201 - Successful Response

```

{
  "id": "f189bc49-1a52-4176-96ea-732f76f14aad",
  "type": "SELL",
  "transaction": {
    "id": "2643daf4-a66f-4d96-b88e-a0985f674932",
    "type": "RECEIPT",
    "serial": 52,
    "status": "PENDING",
    "request_signed_at": null,
    "request_received_at": null,
    "response_status": null,
    "response_error_message": null,
    "response_id": null,
    "offline_id": "TEST-Xd-V3m",
    "created_at": "2022-07-03T06:44:06.385318+00:00",
    "updated_at": "2022-07-03T06:44:06.385318+00:00",
    "previous_hash": "5b7d8faf10df12069585384fb6aec59e0f01daf99b50429b2fd90cd8c99f6e32"
  },
  "serial": 4,
  "status": "DONE",
  "goods": [
    {
      "good": {
        "code": "Код товару 1",
        "barcode": "A12345",
        "name": "Назва товару 1",
        "excise_barcodes": [
          "B12345",
          "C12345"
        ]
      },
      "header": "Хедер товару 1",
      "footer": "Футер товару 1",
      "uktzed": "0701",
      "price": 123
    }
  ],
}

```

```

"good_id": "cca43968-0bc9-4bb4-a6bd-cba39f81b039",
"sum": 123,
"quantity": 1000,
"is_return": false,
"taxes": [
{
    "id": "8e177128-b6a0-4012-b74b-579d5805eec7",
    "code": 1,
    "label": "ПДВ",
    "symbol": "A",
    "rate": 20,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-05-31T23:34:24+00:00",
    "updated_at": null,
    "value": 19,
    "extra_value": 0
},
{
    "id": "c386b92b-d9ee-4791-ac80-cf4efcbe82e7",
    "code": 8,
    "label": "Без ПДВ",
    "symbol": "З",
    "rate": 0,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-03-22T15:19:17+00:00",
    "updated_at": null,
    "value": 0,
    "extra_value": 0
}
],
"discounts": [
{
    "type": "DISCOUNT",
    "mode": "VALUE",
    "value": 1,
    "tax_code": null,
    "tax_codes": [
        1,
        8
    ],
    "name": "Назва знижки",
    "sum": -1
}
],
{
    "good": {
    "code": "Код товару 2",

```

```
"barcode": "A6789",
"name": "Назва товару 2",
"excise_barcodes": [
    "B12345",
    "C12345"
],
"header": "Хедер товару 2",
"footer": "Футер товару 2",
"uktzed": "0701",
"price": 456
},
"good_id": "45afc0ec-882d-48f0-9418-b398356395fc",
"sum": 456,
"quantity": 1000,
"is_return": false,
"taxes": [
{
    "id": "5741d215-1303-4010-9fa8-c8fb91bdf165",
    "code": 8,
    "label": "Без ПДВ",
    "symbol": "3",
    "rate": 0,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-03-22T15:19:17+00:00",
    "updated_at": null,
    "value": 0,
    "extra_value": 0
}
],
"discounts": [
{
    "type": "EXTRA_CHARGE",
    "mode": "PERCENT",
    "value": 1,
    "tax_code": null,
    "tax_codes": [
        8
    ],
    "name": "назва надбавки",
    "sum": 5
}
]
},
"payments": [
{
    "type": "CASH",
    "pawnshop_is_return": false,
    "value": 50,
```

```
    "label": "Готівка"
  },
  {
    "type": "CASHLESS",
    "pawnshop_is_return": false,
    "code": 1,
    "value": 500,
    "commission": null,
    "label": "Карта",
    "card_mask": "**** * 5555",
    "bank_name": "Приватбанк",
    "auth_code": "7777",
    "rrn": "98765",
    "payment_system": "LiqPay",
    "owner_name": "Покупець 1",
    "terminal": "Термінал 1",
    "acquiring": "Privatbank",
    "acquirer_and_seller": "Privatbank",
    "receipt_no": "123456",
    "signature_required": true
  }
],
"total_sum": 554,
"sum": 554,
"total_payment": 550,
"total_rest": 0,
"rest": 0,
"fiscal_code": "TEST-Xd-V3m",
"fiscal_date": "2022-07-03T06:39:19.497000+00:00",
"delivered_at": null,
"created_at": "2022-07-03T06:39:19.497000+00:00",
"updated_at": "2022-07-03T06:44:06.849246+00:00",
"taxes": [
  {
    "id": "0f833d8f-b5f5-467d-a1a2-9db0f811feee",
    "code": 1,
    "label": "ПДВ",
    "symbol": "A",
    "rate": 20,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-05-31T23:34:24+00:00",
    "updated_at": null,
    "value": 19,
    "extra_value": 0
  },
  {
    "id": "8fa1e5f4-9015-4aee-885f-7c835f3c2967",
    "code": 8,
    "label": "Без ПДВ",
```

```

        "symbol": "3",
        "rate": 0,
        "extra_rate": 0,
        "included": true,
        "created_at": "2022-03-22T15:19:17+00:00",
        "updated_at": null,
        "value": 0,
        "extra_value": 0
    }
],
"discounts": [
    {
        "type": "DISCOUNT",
        "mode": "PERCENT",
        "value": 5,
        "tax_code": null,
        "tax_codes": [
            8
        ],
        "name": "Назва знижки на чек",
        "sum": -29
    }
],
"order_id": null,
"header": "хедер чека",
"footer": "футер чека",
"barcode": "AB12345",
"custom": null,
"is_created_offline": true,
"is_sent_dps": false,
"sent_dps_at": null,
"tax_url":
"https://cabinet.tax.gov.ua/cashregs/check?id=TEST-Xd-V3m&date=20220703&time=09%3A39%3A19&f
n=TEST074280&mac=5b7d8faf10df12069585384fb6aec59e0f01daf99b50429b2fd90cd8c99f6e32",
"related_receipt_id": "2e8b57cf-d500-4f29-9fd4-9b9954ad4daf",
"technical_return": false,
"currency_exchange": null,
"shift": {
    "id": "c267c19f-6b75-4875-be0d-961698bfe27c",
    "serial": 3,
    "status": "OPENED",
    "z_report": null,
    "opened_at": "2022-07-03T06:05:28.837973+00:00",
    "closed_at": null,
    "initial_transaction": {
        "id": "b1cb570c-34a2-4fd3-a64b-68d68d4fe569",
        "type": "SHIFT_OPEN",
        "serial": 45,
        "status": "DONE",
        "request_signed_at": "2022-07-03T06:05:28.960977+00:00",
    }
}

```

```
"request_received_at": "2022-07-03T06:05:29.039861+00:00",
"response_status": "OK",
"response_error_message": null,
"response_id": "TEST-RDWLn5",
"offline_id": null,
"created_at": "2022-07-03T06:05:28.837973+00:00",
"updated_at": "2022-07-03T06:05:29.066714+00:00",
"previous_hash": "cb6147271be7b511ddfae2186bdfe97deac1a83c762fcd6adc99c7b765de706b"
},
"closing_transaction": null,
"created_at": "2022-07-03T06:05:28.837973+00:00",
"updated_at": "2022-07-03T06:05:29.075163+00:00",
"balance": {
  "initial": 0,
  "balance": 1350,
  "cash_sales": 1350,
  "card_sales": 1500,
  "cash_returns": 0,
  "card_returns": 0,
  "service_in": 0,
  "service_out": 0,
  "updated_at": "2022-07-03T06:44:06.385318+00:00"
},
"taxes": [
  {
    "id": "0f833d8f-b5f5-467d-a1a2-9db0f811feee",
    "code": 1,
    "label": "ПДВ",
    "symbol": "A",
    "rate": 20,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-05-31T23:34:24+00:00",
    "updated_at": null,
    "sales": 57,
    "returns": 0,
    "sales_turnover": 348,
    "returns_turnover": 0
  },
  {
    "id": "e5320055-802d-4360-99b3-ae1bd9f5ed45",
    "code": 2,
    "label": "ПДВ 7%",
    "symbol": "Б",
    "rate": 7,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-02-16T13:25:00+00:00",
    "updated_at": null,
    "sales": 0,
```

```
"returns": 0,
"sales_turnover": 0,
"returns_turnover": 0
},
{
  "id": "aa644d08-5087-4af5-9f58-690489d21a57",
  "code": 3,
  "label": "ПДВ 14%",
  "symbol": "B",
  "rate": 14,
  "extra_rate": 0,
  "included": true,
  "created_at": "2022-02-17T23:51:18+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "912d65e5-7c71-4de0-9959-c7d9d5ddd972",
  "code": 4,
  "label": "ПДВ+Акциз",
  "symbol": "Г",
  "rate": 20,
  "extra_rate": 5,
  "included": true,
  "created_at": "2022-03-22T15:19:02+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "c65eb036-3129-4585-b9ab-7371c70d50d7",
  "code": 5,
  "label": "Акциз",
  "symbol": "Д",
  "rate": 0,
  "extra_rate": 5,
  "included": true,
  "created_at": "2022-02-16T13:36:10+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
```

```
"id": "bea8a848-20de-4d67-bc04-7bb0ed0d767c",
"code": 6,
"label": "B3",
"symbol": "E",
"rate": 1,
"extra_rate": 0,
"included": true,
"created_at": "2022-02-16T13:36:17+00:00",
"updated_at": null,
"sales": 0,
"returns": 0,
"sales_turnover": 0,
"returns_turnover": 0
},
{
  "id": "c41f99f4-4717-4e1a-8ef9-ac79be5f4dbc",
  "code": 7,
  "label": "ПДВ 0%",
  "symbol": "Ж",
  "rate": 0,
  "extra_rate": 0,
  "included": true,
  "created_at": "2022-02-23T18:59:04+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "8fa1e5f4-9015-4aee-885f-7c835f3c2967",
  "code": 8,
  "label": "Без ПДВ",
  "symbol": "З",
  "rate": 0,
  "extra_rate": 0,
  "included": true,
  "created_at": "2022-03-22T15:19:17+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 2862,
  "returns_turnover": 0
}
],
"cash_register": {
  "id": "09e2cbe6-dd38-4655-9d8b-4fc58b10530e",
  "fiscal_number": "TEST074280",
  "active": true,
  "created_at": "2021-12-27T03:30:51+00:00",
```

```

    "updated_at": "2022-06-29T17:57:12+00:00"
  },
  "cashier": {
    "id": "bc87b093-6afc-4f96-958e-c7cdd1e77e20",
    "full_name": "Тестовий кассир",
    "nin": "000000000",
    "key_id": "test_RY8XfV3aMJRKcsnQ",
    "signature_type": "TEST",
    "permissions": null,
    "created_at": "2021-12-27T03:30:51+00:00",
    "updated_at": "2021-12-28T11:40:05+00:00",
    "certificate_end": null,
    "blocked": null
  }
},
"control_number": "4901"
}

```

400 Error: Bad Request

If the cashier's signature is not running, then you will receive a 400 Error: Bad Request with the message:

```

{
  "message": "CheckBox Підпис неактивний, запустіть його, будь ласка"
}

```

400 Error: Bad Request

If you try to create a check and the change is closed, you will receive a 400 Error: Bad Request and the following message:

```

{
  "message": "Зміну не відкрито"
}

```

400 Error: Bad Request

If you enter an incorrect or non-existent order number, you will receive a 400 Error: Bad Request and a message like this:

```

{
  "message": "Вказано невідомий ідентифікатор замовлення"
}

```

400 Error: Bad Request

If you specify an id for the receipt that was previously used to create another receipt, you will receive a 400 Error: Bad Request and a message like this:

```
{
  "message": "Вказаний id чеку вже існує"
}
```

By specifying the id of the receipt when it is created on your side, you can protect yourself from repeated erroneous fiscalization of the same receipt, since re-sending a request to create a receipt with an id identical to the one previously used will result in an error and the request will not be fulfilled.

400 Error: Bad Request

If the id of the previous receipt is incorrectly specified in the request, you will receive a 400 Error: Bad Request and a message of the following type:

```
{
  "message": "id попереднього чеку відрізняється від останнього збереженого чеку"
}
```

passing this id to the payload of the receipt is optional. It allows you to monitor the chain of receipts that you sending to Checkbox and be sure that the previous receipt has already reached the server, and the chain of transmission of transactions remains intact and the sequence is not broken.

400 Error: Bad Request

If you specify an amount less than the price of the product in the payment block, you will receive a 400 Error: Bad Request and a message like this:

```
{
  "message": "Сума платежів не може бути меншою ніж сума чеку"
}
```

400 Error: Bad Request

If an amount different from the total price of the goods is specified in the return receipt in the payment block, you will receive a 400 Error: Bad Request and a message of the following type:

```
{
  "message": "Сума платежів повинна дорівнювати сумі чеку повернення (4544.00)"
}
```

400 Error: Bad Request

If you try to withdraw more cash from the cash register than is available (when creating a return receipt), you will receive a 400 Error: Bad Request and a message like this:

```
{
  "message": "Неможливо виконати операцію, оскільки в касі недостатньо коштів (<сума, яку ви хочете вилучити> > <сума готівки у касі>)"
}
```

401 Error: Unauthorized

If the cashier is not authorized (his access token has been revoked), the server will return a 401 Error: Unauthorized with a message in the response body "message": "Invalid access token".

```
{
  "message": "Невірний токен доступу"
}
```

403 Error: Forbidden

If the cashier is deactivated by the user, the server will return the error 403 Error: Forbidden and the message in the body of the "message" response: "Access is denied because the cashier is deactivated"

```
{
  "message": "Доступ заборонено, оскільки касира деактивовано"
}
```

403 Error: Forbidden

If the cashier is active, but the authorization was not performed (the authorization token was not passed in the request header), the server will return the error 403 Error: Forbidden and the message in the body of the response "message": "Not authenticated"

```
{
  "message": "Not authenticated"
}
```

403 Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

422 Validation Error

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{
  "detail": [
    {
      "loc": [
        "<місцезнаходження помилки>"
      ],
      "msg": "<опис помилки>",
      "type": "<тип помилки>"
    }
  ]
}
```

```

    }
  ],
  "message": "<короткий опис помилки>"
}

```

503 Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```

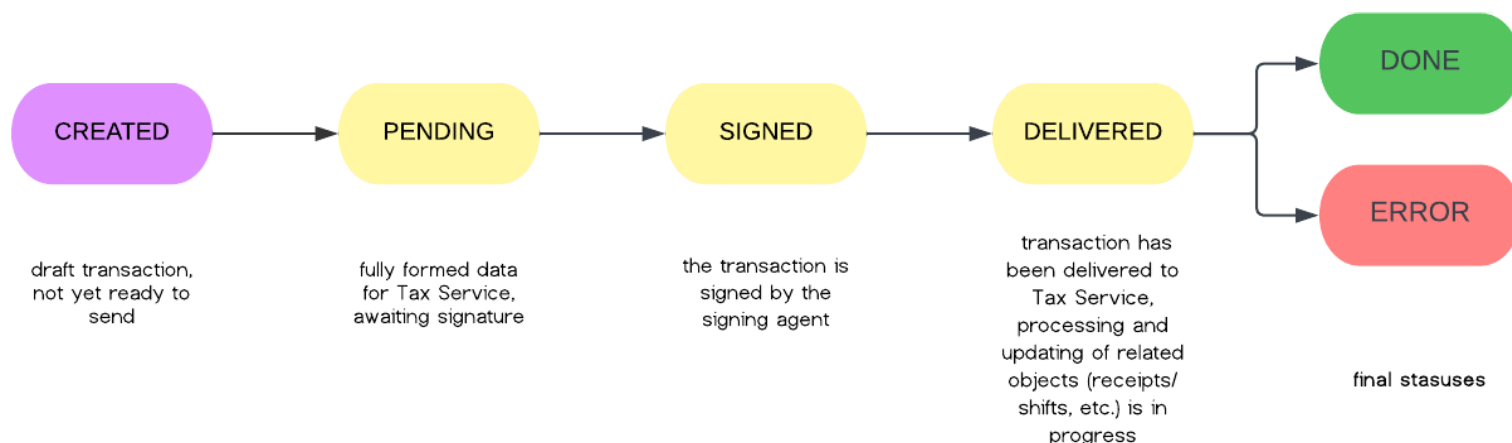
{"message": "Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}

```

GET /api/v1/receipts/{receipt_id} - get information about the receipt

Allows you to check the status of fiscalization (status, fiscal_code, fiscal_date) and delivery of email notifications to the buyer (delivered_at)

Transaction statuses:



Receipts has statuses: CREATED, DONE/ERROR.

Parameters

```

{receipt_id} - url parameter identifier of the created receipt

```

Responses

200 - Successful Response

```

{
  "id": "497f6eca-6276-4993-bfeb-53cbbbba6f08",
  "type": "SELL",
  "transaction": {},
  "serial": 0,
  "status": "CREATED",
  "goods": [],
  "payments": [],

```

```
"total_sum": 0,
"total_payment": 0,
"total_rest": 0,
"fiscal_code": "string",
"fiscal_date": "2019-08-24T14:15:22Z",
"delivered_at": "2019-08-24T14:15:22Z",
"created_at": "2019-08-24T14:15:22Z",
"updated_at": "2019-08-24T14:15:22Z",
"taxes": [],
"discounts": [],
"footer": "string",
"barcode": "string",
"is_created_offline": false,
"is_sent_dps": false,
"sent_dps_at": "2019-08-24T14:15:22Z",
"shift": {}
}
```

GET /api/v1/receipts/{receipt_id}/png - get a visual representation of a fiscalized receipt in the form of PNG

After the status of the receipt changes to DONE, you can get a visualization of the receipt in the form of a PNG image.

Parameters

```
{receipt_id} - url parameter identifier of the created receipt
```

Responses

200 - Successful Response

Content-Type: text/html

POST /api/v1/shifts/close – closing the current shift by the user (cashier)

Change status is set to "CLOSING" and change closing transaction (field "closing_transaction_id").

To move the shift to the CLOSED status, it is necessary that the transaction be signed using EDS and delivered to the Tax Service. The status of the shift can be tracked using a GET request `/api/v1/shifts/{shift_id}`, where {shift_id} is the shift identifier. After the shift is closed, it will no longer be possible to perform actions within its framework. To continue working, you need to create a new shift.

If the request body is left empty, then all data on the Z-report will be generated on the server side. If you fill in the report data in the body of the request, it will be generated in the form in which you filled it in (with all possible errors in the data). That is, when manually filling in the fields of the Z-report, you must do all the necessary calculations on your side.

Parameters

-

Request body

-

Responses

200 - Successful Response

```
{
  "id": "12bcd4fb-5329-4375-b6c9-33c2c2c5f3b1",
  "serial": 9,
  "status": "CLOSING",
  "z_report": {
    "id": "03be91b3-efd2-4ed0-ac9f-09b408c52e1a",
    "serial": 8,
    "is_z_report": true,
    "payments": [],
    "taxes": [
      {
        "id": "801507af-3990-4eaf-be18-4eaa80735709",
        "code": 1,
        "label": "ПДВ",
        "symbol": "A",
        "rate": 20,
        "sell_sum": 0,
        "return_sum": 0,
        "sales_turnover": 0,
        "returns_turnover": 0,
        "created_at": "2022-05-31T23:34:24+00:00",
        "setup_date": "2022-05-31T23:34:24+00:00"
      },
      {
        "id": "9bcdcf953-b436-4e9f-ad34-d695c1f42ddc",
        "code": 2,
        "label": "ПДВ 7%",
        "symbol": "Б",
        "rate": 7,
        "sell_sum": 0,
        "return_sum": 0,
        "sales_turnover": 0,
        "returns_turnover": 0,
        "created_at": "2022-02-16T13:25:00+00:00",
        "setup_date": "2022-02-16T13:25:00+00:00"
      },
      {
        "id": "0ba602ba-8e8f-4f27-bf60-b7f6e04e8bb1",
        "code": 3,
        "label": "ПДВ 14%",
        "symbol": "В",
        "rate": 14,
        "sell_sum": 0,
        "return_sum": 0,

```

```
"sales_turnover": 0,
"returns_turnover": 0,
"created_at": "2022-02-17T23:51:18+00:00",
"setup_date": "2022-02-17T23:51:18+00:00"
},
{
  "id": "723082fe-d835-4ec0-8d8e-a7760165842b",
  "code": 4,
  "label": "ПДВ+Акциз",
  "symbol": "Г",
  "rate": 20,
  "sell_sum": 0,
  "return_sum": 0,
  "sales_turnover": 0,
  "returns_turnover": 0,
  "created_at": "2022-03-22T15:19:02+00:00",
  "setup_date": "2022-03-22T15:19:02+00:00"
},
{
  "id": "146d42ec-1875-4288-81b6-e0ee8f26f9f9",
  "code": 5,
  "label": "Акциз",
  "symbol": "Д",
  "rate": 0,
  "sell_sum": 0,
  "return_sum": 0,
  "sales_turnover": 0,
  "returns_turnover": 0,
  "created_at": "2022-02-16T13:36:10+00:00",
  "setup_date": "2022-02-16T13:36:10+00:00"
},
{
  "id": "92719c60-b55f-4a8b-8963-939279e87392",
  "code": 6,
  "label": "В3",
  "symbol": "Е",
  "rate": 1.5,
  "sell_sum": 0,
  "return_sum": 0,
  "sales_turnover": 0,
  "returns_turnover": 0,
  "created_at": "2022-02-16T13:36:17+00:00",
  "setup_date": "2022-02-16T13:36:17+00:00"
},
{
  "id": "2d0c5ad8-8280-47cc-9e59-801fe0647fda",
  "code": 7,
  "label": "ПДВ 0%",
  "symbol": "Ж",
  "rate": 0,
```

```

"sell_sum": 0,
"return_sum": 0,
"sales_turnover": 0,
"returns_turnover": 0,
"created_at": "2022-02-23T18:59:04+00:00",
"setup_date": "2022-02-23T18:59:04+00:00"
},
{
  "id": "edee1439-e4c0-4419-bbca-73a8e9595ba1",
  "code": 8,
  "label": "Без ПДВ",
  "symbol": "3",
  "rate": 0,
  "sell_sum": 0,
  "return_sum": 0,
  "sales_turnover": 0,
  "returns_turnover": 0,
  "created_at": "2022-03-22T15:19:17+00:00",
  "setup_date": "2022-03-22T15:19:17+00:00"
}
],
"sell_receipts_count": 0,
"return_receipts_count": 0,
"cash_withdrawal_receipts_count": 0,
"transfers_count": 0,
"transfers_sum": 0,
"balance": 2398,
"initial": 2398,
"created_at": "2022-07-03T09:40:13.925627+00:00",
"updated_at": null
},
"opened_at": "2022-07-03T09:40:05.411194+00:00",
"closed_at": null,
"initial_transaction": {
  "id": "e85e2ed3-5bd6-419c-bf73-97f895a23b34",
  "type": "SHIFT_OPEN",
  "serial": 75,
  "status": "DONE",
  "request_signed_at": "2022-07-03T09:40:05.547557+00:00",
  "request_received_at": "2022-07-03T09:40:05.624398+00:00",
  "response_status": "OK",
  "response_error_message": null,
  "response_id": "TEST-4KBb10",
  "offline_id": null,
  "created_at": "2022-07-03T09:40:05.411194+00:00",
  "updated_at": "2022-07-03T09:40:05.651625+00:00",
  "previous_hash": "83dd449f0ab99183d238d63fe0c036479bdde2eb40516423c7c19468a10d727b"
},
"closing_transaction": {
  "id": "4be7fe4f-360d-44ae-91f7-fa44ae4da3a1",

```

```

    "type": "Z_REPORT",
    "serial": 76,
    "status": "PENDING",
    "request_signed_at": null,
    "request_received_at": null,
    "response_status": null,
    "response_error_message": null,
    "response_id": null,
    "offline_id": null,
    "created_at": "2022-07-03T09:40:13.891125+00:00",
    "updated_at": null,
    "previous_hash": "abca189776c642240f8fcbeb6157c1c761651f54e0733db8efda380405a49287"
  },
  "created_at": "2022-07-03T09:40:05.411194+00:00",
  "updated_at": "2022-07-03T09:40:13.925627+00:00",
  "balance": {
    "initial": 2398,
    "balance": 2398,
    "cash_sales": 0,
    "card_sales": 0,
    "cash_returns": 0,
    "card_returns": 0,
    "service_in": 0,
    "service_out": 0,
    "updated_at": null
  },
  "taxes": [
    {
      "id": "75df4684-82eb-4e1c-989d-e452b082a3bc",
      "code": 1,
      "label": "ПДВ",
      "symbol": "A",
      "rate": 20,
      "extra_rate": 0,
      "included": true,
      "created_at": "2022-05-31T23:34:24+00:00",
      "updated_at": null,
      "sales": 0,
      "returns": 0,
      "sales_turnover": 0,
      "returns_turnover": 0
    },
    {
      "id": "7b14d411-82cd-4744-a094-b52dabcb9866",
      "code": 2,
      "label": "ПДВ 7%",
      "symbol": "Б",
      "rate": 7,
      "extra_rate": 0,
      "included": true,

```

```
"created_at": "2022-02-16T13:25:00+00:00",
"updated_at": null,
"sales": 0,
"returns": 0,
"sales_turnover": 0,
"returns_turnover": 0
},
{
  "id": "a3106151-c712-4fb4-93af-44181862e46e",
  "code": 3,
  "label": "ПДВ 14%",
  "symbol": "B",
  "rate": 14,
  "extra_rate": 0,
  "included": true,
  "created_at": "2022-02-17T23:51:18+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "909bca5f-378b-429f-abe7-40999a3d1632",
  "code": 4,
  "label": "ПДВ+Акциз",
  "symbol": "Г",
  "rate": 20,
  "extra_rate": 5,
  "included": true,
  "created_at": "2022-03-22T15:19:02+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
  "returns_turnover": 0
},
{
  "id": "785d4023-dc46-4a05-86d2-4905c1eccba8",
  "code": 5,
  "label": "Акциз",
  "symbol": "Д",
  "rate": 0,
  "extra_rate": 5,
  "included": true,
  "created_at": "2022-02-16T13:36:10+00:00",
  "updated_at": null,
  "sales": 0,
  "returns": 0,
  "sales_turnover": 0,
```

```

    "returns_turnover": 0
  },
  {
    "id": "832cbecf-e39f-4531-ae9c-713fcff30c4a",
    "code": 6,
    "label": "B3",
    "symbol": "E",
    "rate": 1,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-02-16T13:36:17+00:00",
    "updated_at": null,
    "sales": 0,
    "returns": 0,
    "sales_turnover": 0,
    "returns_turnover": 0
  },
  {
    "id": "554c8800-3980-4909-a835-002333091d13",
    "code": 7,
    "label": "ПДВ 0%",
    "symbol": "Ж",
    "rate": 0,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-02-23T18:59:04+00:00",
    "updated_at": null,
    "sales": 0,
    "returns": 0,
    "sales_turnover": 0,
    "returns_turnover": 0
  },
  {
    "id": "050e8403-4c57-46a6-bc87-e43e84f6d6fe",
    "code": 8,
    "label": "Без ПДВ",
    "symbol": "З",
    "rate": 0,
    "extra_rate": 0,
    "included": true,
    "created_at": "2022-03-22T15:19:17+00:00",
    "updated_at": null,
    "sales": 0,
    "returns": 0,
    "sales_turnover": 0,
    "returns_turnover": 0
  }
],
"cash_register": {
  "id": "09e2cbe6-dd38-4655-9d8b-4fc58b10530e",

```

```
    "fiscal_number": "TEST074280",
    "active": true,
    "created_at": "2021-12-27T03:30:51+00:00",
    "updated_at": "2022-06-29T17:57:12+00:00"
  },
  "cashier": {
    "id": "bc87b093-6afc-4f96-958e-c7cdd1e77e20",
    "full_name": "Тестовий касир",
    "nin": "000000000",
    "key_id": "test_RY8XfV3aMJRKcsnQ",
    "signature_type": "TEST",
    "permissions": null,
    "created_at": "2021-12-27T03:30:51+00:00",
    "updated_at": "2021-12-28T11:40:05+00:00",
    "certificate_end": null,
    "blocked": null
  }
}
```

400 Error: Bad Request

If the cashier's signature is not running, then you will receive a 400 Error: Bad Request with the message:

```
{
  "message": "CheckBox Підпис неактивний, запустіть його, будь ласка"
}
```

400 Error: Bad Request

Attempting to close a shift if it is already closed will result in a 400 Error: Bad Request with the message in the "message" response body: "Change not open".

```
{
  "message": "Зміну не відкрито"
}
```

401 Error: Unauthorized

If the cashier is not authorized (his access token has been revoked), the server will return a 401 Error: Unauthorized with a message in the response body "message": "Invalid access token".

```
{
  "message": "Невірний токен доступу"
}
```

403 Error: Forbidden

If the cashier is deactivated by the user, the server will return the error 403 Error: Forbidden and the message in the body of the "message" response: "Access is denied because the cashier is deactivated"

```
{
  "message": "Доступ заборонено, оскільки касира деактивовано"
}
```

403 Error: Forbidden

If the cashier is active, but the authorization was not performed (the authorization token was not passed in the request header), the server will return the error 403 Error: Forbidden and the message in the body of the response "message": "Not authenticated"

```
{
  "message": "Not authenticated"
}
```

403 Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

409 Error

In the event that the change was opened through another integration for which restrictions are set (for example, Checkbox.Kasa, the use of which simultaneously with direct API integration can lead to serious errors in the work of the programming cash register), the API will return an error of the following type:

```
{
  "message": "Зміну відкрито за допомогою CheckBox Kasa, виконання дії через іншу інтеграцію призведе до непередбачуваних помилок в роботі каси"
}
```

422 Validation Error

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{
  "detail": [
    {
      "loc": [
        "<місцезнаходження помилки>"
      ],
      "msg": "<опис помилки>",
      "type": "<тип помилки>"
    }
  ],
}
```

```
"message": "<короткий опис помилки>"
}
```

503 Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```
{"message": "Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}
```

API methods for working in a offline mode.

The offline mode of operation is required to continue operation in the event that the Tax Service server or Checkbox API doesn't respond, or there is no Internet at the point of sale.

GET/api/v1/cash-registers/get-offline-codes - getting a list of available fiscal numbers for offline mode

If the pre-software cash register has previously received a list of offline fiscal codes using the [ASK OFFLINE CODES](#) method, then using the **/api/v1/cash-registers/get-offline-codes** method, you can download the required number of currently unused fiscal numbers from the Checkbox server, even if the Tax Service server is unavailable.

Any fiscal code can be used only 1 time to create an offline opening/closing shift transaction, offline transition or receipt. Note that on the Checkbox server side, the function of automatic transition to offline mode is implemented in the event of a timeout from the Tax Service response. That is, the server will automatically create an offline transition transaction and start creating receipts in offline mode, substituting available offline codes for them, even if you, on your part, send checks as online. That is, before sending offline checks to Checkbox, you should synchronize the pool of fiscal codes available for use, otherwise an error of the type **"[offline_mode_exception#error] Offline code '<офлайн код>' was used before!"**.

The GET OFFLINE CODES method can be used only if the shift is open.

query

```
GET "https://api.checkbox.ua/api/v1/cash-registers/get-offline-codes?count=<number of offline codes>"
```

Parameters

-

Request body

The request body should be empty in this case

Responses

200 - Successful Response

```
[
  {
    "cash_register_id": "fb75cd7e-0f7b-4de3-b185-4a60c8b0123c",
    "serial_id": 1,
  }
]
```

```

    "created_at": "2021-12-01T18:17:40.035386",
    "fiscal_code": "1DKJSU6ZQtk"
  },
  {
    "cash_register_id": "fb75cd7e-0f7b-4de3-b185-4a60c8b0123c",
    "serial_id": 2,
    "created_at": "2021-12-01T18:17:40.035573",
    "fiscal_code": "Rs3rQ2111I"
  },
  {
    "cash_register_id": "fb75cd7e-0f7b-4de3-b185-4a60c8b0123c",
    "serial_id": 3,
    "created_at": "2021-12-01T18:17:40.035763",
    "fiscal_code": "CwLgtUPD6uA"
  }
]

```

400 Error

If you try to execute a GET OFFLINE CODES request in a closed shift, you will receive a 400 Error with a message in the body of the "message" response: "The shift is not open."

```

{
  "message": "Зміну не відкрито"
}

```

401 Error: Unauthorized

If the cashier is not authorized (his access token has been revoked), the server will return a 401 Error: Unauthorized with a message in the response body "message": "Invalid access token".

```

{
  "message": "Невірний токен доступу"
}

```

403 Error: Forbidden

If the cashier is deactivated by the user, the server will return the error 403 Error: Forbidden and the message in the body of the "message" response: "Access is denied because the cashier is deactivated"

```

{
  "message": "Доступ заборонено, оскільки касира деактивовано"
}

```

403 Error: Forbidden

If the cashier is active, but the authorization was not performed (the authorization token was not passed in the

request header), the server will return the error 403 Error: Forbidden and the message in the body of the response "message": "Not authenticated"

```
{
  "message": "Not authenticated"
}
```

403 Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

422 Validation Error

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{
  "detail": [
    {
      "loc": [
        "<місцезнаходження помилки>"
      ],
      "msg": "<опис помилки>",
      "type": "<тип помилки>"
    }
  ],
  "message": "<короткий опис помилки>"
}
```

503 Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```
{"message": "Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}
```

GET /api/v1/cash-registers/ask-offline-codes – updating the list of fiscal numbers for offline mode

The list of fiscal numbers for creating offline transactions can be obtained from the Tax Service using the **/api/v1/cash-registers/ask-offline-codes** method only when the cash register is in **ONLINE** mode. After completing the request, these numbers are stored on our server and become available for retrieval using the [/api/v1/cash-registers/get-offline-codes method](#).

After executing a request for offline codes, you can send any offline transactions (shifts, receipts, offline transfers) only with a date/time **fiscal_date GREATER OR EQUAL** to the date/time of the request execution **/api/v1/cash-registers/ask-offline-codes**

You can send a request for offline fiscal codes synchronously or asynchronously, which is regulated by the corresponding parameter in the request (sync). The number of codes that the user wants to receive is specified in the count parameter of the request. The asynchronous mode will immediately return the status **"status": "OK"** (or **ERROR**, if an error occurred at the stage of the request formation), regardless of whether the request successfully reached the tax server. Synchronous mode processes the request completely and transmits the final status **DONE** if the request successfully reached the Tax Service server, or **TIMEOUT** if the Tax Service server did not respond within the specified time.

Important - the fiscal code stops being returned by the Tax Service server (it is considered "used") only after a transaction with this code is sent to the Tax Service. Until then, the Tax Service returns the fiscal code with each call. For example, after making the first request to the Tax Service for 100 numbers, we will receive 100 new free fiscal codes for the corresponding cash register. But after making a request for another 200 numbers, we will receive 100 of the same codes and another 100 following them. The Ask Offline Codes method can be called only when the cash register is in online mode.

query

```
GET "https://api.checkbox.ua/api/v1/cash-registers/ask-offline-codes?count=<the number of codes>&sync=<true/false (synchronous/asynchronous)>"
```

Parameters

-

Request body

The request body should be empty in this case

Responses

200 - Successful Response

```
{
  "status": "OK"
}
```

200 Request reuse limit exceeded

If among the last 10 transactions sent, 6 are requests for offline codes, then automatic blocking will work and you will receive a response:

```
{
  "status": "ERROR",
  "error": "Занадто часто виконується запит отримання офлайн кодів"
}
```

401 Error: Unauthorized

If the cashier is not authorized (his access token has been revoked), the server will return a 401 Error: Unauthorized with a message in the response body "message": "Invalid access token".

```
{
  "message": "Невірний токен доступу"
}
```

403 Error: Forbidden

If the cashier is deactivated by the user, the server will return the error 403 Error: Forbidden and the message in the body of the "message" response: "Access is denied because the cashier is deactivated"

```
{
  "message": "Доступ заборонено, оскільки касира деактивовано"
}
```

403 Error: Forbidden

If the cashier is active, but the authorization was not performed (the authorization token was not passed in the request header), the server will return the error 403 Error: Forbidden and the message in the body of the response "message": "Not authenticated"

```
{
  "message": "Not authenticated"
}
```

403 Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

422 Validation Error

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{
  "detail": [
    {
      "loc": [
        "<місцезнаходження помилки>"
      ],
      "msg": "<опис помилки>",
      "type": "<тип помилки>"
    }
  ],
  "message": "<короткий опис помилки>"
}
```

503 Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```
{"message": "Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}
```

POST /api/v1/cash-registers/go-offline - manual transfer of the current cash register offline

The POST method **/api/v1/cash-registers/go-offline** allows you to send a command to switch the cash register to offline mode. To go offline, it is enough to execute 1 successful go-offline request. The current online/offline status of cash register can be determined using the Get Cash Register Info request. The "offline_mode" parameter will show the current online/offline status. It will be false in online, and true in offline.

In the body of the request, it is possible to specify the time stamp of the offline transition (it is this date/time that the offline transition will be registered in the Tax Service). Please note that it is possible to go offline with a date/time stamp **fiscal_date GREATER OR EQUAL** to the date/time of the last transaction successfully delivered to the Tax Service (receipts/opening/closing shift/going online). Submitting an incorrect date/time will cause the register to get stuck offline and cause the register to **BROKE**. In the "fiscal_code" parameter, you must pass a fiscal code that has not been used before.

The initial acquisition of the array of fiscal codes takes place using the [ASK OFFLINE CODES](#) method, after the successful execution of **ASK OFFLINE CODES**, a list of fiscal codes not yet used on the server can be obtained using the [GET OFFLINE CODES](#) method. It is advisable to use it until the supply of offline codes decreases to the number that you set as critical for yourself (for example, up to 500). The **GET OFFLINE CODES** method allows you to get free, previously obtained fiscal codes for the selected cash register much faster, without waiting for a response from the tax server.

If the "fiscal_code" parameter is not passed in the body of the request to go offline, the server will automatically substitute one of the free fiscal codes and perform the transfer of the cash register to offline mode. Note that if you try to later send a receipt with an offline code that was automatically substituted into the offline transition, you will receive an error because each code can only be used once. Also, if "go_offline_date" is not specified in the request body, the offline transition will occur with the current date/time stamp. That is, if you are satisfied that the offline code will be automatically substituted by the server, and the date/time of the transition will be current, then you can leave the body of the offline transition request completely empty.

Parameters

-

Request body

```
{
  "go_offline_date": "2022-06-03T14:26:45+03:00",
  "fiscal_code": "1RvyZSJLrC4"
}
```

-

Responses

200 - Successful Response

```
{
  "status": "ok",
  "id": "e9896d03-cbe9-4f0c-8d38-2d827e2c4cb9"
}
```

400 Error: Bad Request

If an error is made in the formation of the content of the request body and the server cannot parse it, you will receive a 400 Error: Bad Request with the message:

```
{
  "message": "There was an error parsing the body"
}
```

400 Error: Bad Request

If the cash register is already offline when the server receives the request, you will receive a 400 Error: Bad Request with the message in the body of the "message" response: "The cash register is already offline"

```
{
  "message": "Каса вже в режимі оффлайн"
}
```

400 Error: Bad Request

If you try to send a request to go offline with an offline code that has already been used for another transaction, you will receive a 400 Error: Bad Request error from the server with a message in the response body "message": "[offline_mode_exception#error] Offline code ' <offline code>' was used before!"

```
{
  "message": "[offline_mode_exception#error] Offline code 'lRvyZSJlRc4' was used before!"
}
```

400 Error: Bad Request

If in the header of the request you specify the license key of a cash register on which a change has already been opened by another cashier, you will receive a 400 Error: Bad Request error from the server with a message in the body of the response "message": "The cash register is occupied by another cashier"

```
{
  "message": "Каса зайнята іншим касиром"
}
```

401 Error: Unauthorized

If the cashier is not authorized (his access token has been revoked), the server will return a 401 Error: Unauthorized with a message in the response body "message": "Invalid access token".

```
{
```

```
{
  "message": "Невірний токен доступу"
}
```

403 Error: Forbidden

If the cashier is deactivated by the user, the server will return the error 403 Error: Forbidden and the message in the body of the "message" response: "Access is denied because the cashier is deactivated"

```
{
  "message": "Доступ заборонено, оскільки касира деактивовано"
}
```

403 Error: Forbidden

If the cashier is active, but the authorization was not performed (the authorization token was not passed in the request header), the server will return the error 403 Error: Forbidden and the message in the body of the response "message": "Not authenticated"

```
{
  "message": "Not authenticated"
}
```

403 Error: Forbidden

If the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{
  "message": "Невірний ключ доступу"
}
```

422 Validation Error

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{
  "detail": [
    {
      "loc": [
        "<місцезнаходження помилки>"
      ],
      "msg": "<опис помилки>",
      "type": "<тип помилки>"
    }
  ],
  "message": "<короткий опис помилки>"
}
```

503 Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```
{"message":"Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}
```

POST/api/v1/cashier/go-online - manual transfer of the current cash register online

The POST method **/api/v1/cash-registers/go-online** allows you to send a command to the beginning of the transition of the cash register to online mode. Please note that sending this command alone does not mean that the cash register will be immediately online. If there are many offline checks in the queue to be sent to the Tax Service, then one request may not be enough. After sending go-online, you should check the status of the cash register in a few seconds by requesting **Get Cash Register Info**. The "offline_mode" parameter will show the current status. It will be false in online, and true in offline. If the cash register has not gone online, you should send go-online again and check the status of the cash register again after a few seconds, repeating the actions in a cycle until the cash register goes online.

Note that offline receipt creation methods require an offline transition initiated by your integration. You can check whether the current offline transition was initiated by the integration using the "stay_offline" flag. If it is true, it means that the integration transferred to the offline cash register, if false, it means that the transfer was automatic on the server side and you must first send go-offline with fiscal_date no earlier than the date/time of the last transaction on the Checkbox server.

The recommended timeout between go-online re-requests is 10-15 seconds, but if you have a large number of receipts generated constantly, you will need to reduce it.

If you have sent the go-online command more times than you have created offline transactions not sent to the Tax Service, or you have been unable to go online for a long time, despite constant attempts to send go-online - check the presence of communication with the Tax Service using the PING method. If there is a connection with the Tax Server and you do not receive a type error

```
_InactiveRpcError: <_InactiveRpcError of RPC that terminated with:
  status = StatusCode.DEADLINE_EXCEEDED
  details = "Deadline Exceeded"
  debug_error_string = "{\"created\":\"@1651529548.259915513\",\"description\":\"Deadline
Exceeded\",\"file\":\"src/core/ext/filters/deadline/deadline_filter.cc\",\"file_line\":81,\"grpc_status\":4}\"
>
```

which indicates the unavailability of the Tax Service server, and the transition to online does not occur - contact Checkbox technical support for advice.

Parameters

-

Request body

The request body should be empty in this case

200 - Successful Response

```
{  
  "status": "ok"  
}
```

400 Error: Bad Request

If in the header of the request you specify the license key of a cash register on which a change has already been opened by another cashier, you will receive a 400 Error: Bad Request error from the server with a message in the body of the response "message": "The cash register is occupied by another cashier"

```
{  
  "message": "Каса зайнята іншим касиром"  
}
```

401 Error: Unauthorized

If the cashier is not authorized (his access token has been revoked), the server will return a 401 Error: Unauthorized with a message in the response body "message": "Invalid access token".

```
{  
  "message": "Невірний токен доступу"  
}
```

403 Error: Forbidden

If the cashier is deactivated by the user, the server will return the error 403 Error: Forbidden and the message in the body of the "message" response: "Access is denied because the cashier is deactivated"

```
{  
  "message": "Доступ заборонено, оскільки касира деактивовано"  
}
```

403 Error: Forbidden

If the cashier is active, but the authorization was not performed (the authorization token was not passed in the request header), the server will return the error 403 Error: Forbidden and the message in the body of the response "message": "Not authenticated"

```
{  
  "message": "Not authenticated"  
}
```

403 Error: Forbidden

In the event that the Integration ID key was specified incorrectly, you will receive a 403 Error: Forbidden error and a message in the "message" field: "Invalid access key" in the response body from the Checkbox server.

```
{  
  "message": "Невірний ключ доступу"  
}
```

422 Validation Error

In the event that your request fails format validation, you will receive a 422 Error: Unprocessable Entity with the following content, which will indicate the approximate location and description of the error:

```
{  
  "detail": [  
    {  
      "loc": [  
        "<місцезнаходження помилки>"  
      ],  
      "msg": "<опис помилки>",  
      "type": "<тип помилки>"  
    }  
  ],  
  "message": "<короткий опис помилки>"  
}
```

503 Error

If the server is undergoing maintenance at the time of the request, you will receive a 503 error with the following message:

```
{"message": "Maintenance work till 3:30 GMT+3. Sorry for the inconvenience."}
```

If you have any questions, found an error, or want to suggest adding additional information to the instructions, you can always [contact us](#) in a way convenient for you.