1 Tezro Api (current version: 2.8.0)

Documentation for integrating shop payments through Tezro

1.1 Latest changes

- Added optional `redirectUrl` and `confirmStatusUrl` fields to InputAddressDto and AddressDto:
    - `redirectUrl` - if set, after successfull payment customer will be redirected to given url address;
    - `confirmStatusUrl` - If set, overrides `webhook url` which set in Tezro App settings.
- **Changed** added ISO 3661 alpha-2 or alpha-3 validation to 'country' property in InputAddressDto
- **Added** optional "email" field to InputAddressDto and AddressDto.
- **Added** support for address field on order init method in playground

> See Changelog for detailed description of all changes

1.2 General information

API endpoint for all requests in production environment:
`https://openapi.tezro.com/api/v1`

API endpoint for all requests in test environment:
`https://test.openapi.tezro.com/api/v1`

Web app endpoint for testing payment flow as customer:
`https://test.web.tezro.com`

1.2.1 Registration

Firstly you need to create account in Tezro App and create external shop

1. Go to profile page and tap to Settings button in right top corner:
2. Tap to "External shop" for filling basic information about shop:
3. Fill the provided fields:
4. Given credentials will be used in further steps

> ⚠️ **Note**: Keep credentials in secret

1.2.2 Widget

Widget is used for synchronizing order info of external shop with Tezro in bidirectional way. After adding widget to shop, it gets id (must be generated by shop) of order for given item and sends request to Tezro API for creating new order (synchronizing with Tezro API). As result widget receives order details which also contains payment link and generates QR from link.

1.2.3 Payment

1. Customer scans QR code and will be redirected to Tezro App (or to iOS or Android store for installing).
2. Customer fills delivery address information and Tezro API will send `POST` request to your endpoint provided in order details for confirming address.
3. Tezro App updates payment details such as product, shipping and total amount based on response of previous request.
4. Customer chooses currency and pays order through escrow service of Tezro.
5. Tezro API will send order info with updated status of it in `POST` request to webhook url for notifying you.

1.2.4 Processing order

After getting notification from Tezro API with `order_confirmed` status you have the opportunity to send messages to the buyer until this order is completed.

When order was delivered you need to notify Tezro API thereby request unlock payment. After this action customer will be notified and should confirm delivery or dispute.

1.3 Request requirements

To check the integrity and authenticity of data, each request sent by you must contain specific headers.

Depending on the required headers, requests are divided into `Open`, `Public` and `Private`.

`Open` requests don't require any headers

1.4 API Endpoints

1.4.1 GET Playground for testing requests (*Open*)

1.4.1.1 Description

In test mode should be used for testing main requests

1.4.1.2 Request https://test.openapi.tezro.com

1.4.2 GET Get available DTO JSON-scheme definitions (*Open*)

1.4.2.1 Description

Returns avalailable JSON-scheme definitions urls list.

> ⚠️ **Note**: Use scheme values for internal validation

1.4.2.2 Request: `api/v1/enumerations`

1.4.2.3 Response

Status	Body	Description
200	String[]	List of JSON-scheme definitions urls used in requests and responses

1.4.3 GET Get available HMAC algorithms (*Open*)

1.4.3.1 Description

Returns avalailable HMAC algorithms list for signing `Public` and `Private` requests

1.4.3.2 Request: `api/v1/enumerations/hmac`

1.4.3.3 Response

Status	Body	Description
200	String[]	List of available HMAC algorithms

1.4.4 GET Get available order statuses (*Open*)

1.4.4.1 Description

Returns available order statuses list with description of every status

1.4.4.2 Request: `api/v1/enumerations/orderStatuses`

1.4.4.3 Response

Status	Body	Description
200	order status[]	List of available order statuses with description

1.4.5 GET Get available currencies (*Open*)

1.4.5.1 Description

Returns avalailable <u>currencies</u> list for order payment

1.4.5.2 Request: `api/v1/enumerations/currencies`

1.4.5.3 Response

Status	Body	Description
200	<u>currency[]</u>	List of available currencies with decimal places & minimal available amounts

1.4.6 Public request headers

Header	Description
KeyID	Retrieve from credentials
Timestamp	Time of request in UNIX-time milliseconds

1.4.7 POST Init order (*Public*)

1.4.7.1 Description

Creates new order with `order_created` <u>status</u>.

Should be used from widget or SDK.

1.4.7.2 Request: `/api/v1/orders/init`

Body

Must be instance of <u>CreateOrderDto</u>

Status	Body	Description
200	See Order	New order info

⚠️ **Note**: If address was provided in CreateOrderDto status will be `address_confirmed`

1.4.8 GET Get order info (*Public*)

1.4.8.1 Description

Get order by it's id

1.4.8.2 Request: `/api/v1/orders/{id}`

Request parameters

Field	Type	Description
id	String	Order's id generated by Tezro

1.4.8.3 Response

Status	Body	Description
200	See Order	Order info

1.4.9 Private request headers

Header	Description
KeyID	Retrieve from credentials
Timestamp	Time of request in UNIX-time milliseconds
Algorithm	HMAC hash algorithm. Choose one of: `sha1`, `sha256`, `sha384`, `sha512`
X-Tezro-Signature	Signature of private request. See example below

1.4.9.1 Create signature

Below provided example of creation `X-Tezro-Signature` header in `node.js`

```
1   const { createHmac } = require('crypto');
2
3   const timestamp = Date.now(); // Used as request's `Timestamp` header &
    for signing private requests
4
5   const algorithm = 'sha512'; // Used as request's `Algorithm` header &
    for creating HMAC signature. Must be one of 'sha1', 'sha256', 'sha384',
    'sha512'
6
7   const keyId = 'KEY_ID'; // Get it from app ans use as request's header
8
9   // Sign get expired orders query
10  const path = '/api/v1/orders?status=order_expired';
11  const data = timestamp + path;
12
13  // As you've seen above data for signing is request's timestamp and
    endpoint
14  // For signing POST requests except endpoint you need to add
    stringified JSON representation of body
15
16  // const body = {
17  //   "message": "Hello, dear customer!",
```

```
18  //    "entities": [
19  //      {
20  //        "type": "text_url",
21  //        "offset": 0,
22  //        "length": 10,
23  //        "url": "string"
24  //      }
25  //    ]
26  // }
27  // const data = timestamp + path + JSON.stringify(body)
28
29  // Warning: If after stringifying `body` object you have spaces between
    key-value pairs, remove them
30  // `{ "someProp": "someVal" }` should be transformed to
    `{"someProp":"someVal"}`
31
32  const secret = 'YOUR_SECRET_KEY'; // Get it from app and use for
    creating HMAC
33
34  const X_Tezro_Signature = createHmac(algorithm,
    secret).update(data).digest('hex');
```

> ℹ️ Info: Try to order fields as provided in DTO

> ⚠️ **Note**: Signature should not be uppercased. If after stringifying `body`
> object (if exists) you have spaces between key-value pairs, remove them

1.4.10 POST Send message (*Private*)

1.4.10.1 Description

Sends message to customer. Should be used when order's status is one of:
`order_confirmed`, `order_delivered`, `order_disputed`

1.4.10.2 Request: `/api/v1/messages/{id}`

Request parameters

Field	Type	Description
id	String	Order's id generated by Tezro

Body

See CreateMessageDto

1.4.10.3 Response

Status	Body	Description
200	See BaseResponse	Message was sent

1.4.11 POST Set order status (*Private*)

1.4.11.1 Description

Use for changing order's status and sending notification message (optional)

1.4.11.2 Request: `/api/v1/orders/{id}/setStatus`

Request parameters

Field	Type	Description
id	String	Order's id generated by Tezro

Body

See SetOrderStatusBody

1.4.11.3 Response

Status	Body	Description
200	See BaseResponse	Notification sent to customer

1.4.12 DEPRECATED POST Confirm delivery (*Private*)

1.4.12.1 Description

Use Set Order Status request instead

Updates order's current status to `order_delivered` and request customer for unlocking payment

1.4.12.2 Request: `/api/v1/orders/{id}/confirmDelivery`

Request parameters

Field	Type	Description
id	String	Order's id generated by Tezro

Body

Field	Type	Restrictions	Required	Description
comment	String	Length must be in range of 1-4096 symbols inclusively	No	Used to display in request to unlock payment

1.4.12.3 Response

Status	Body	Description
200	See BaseResponse	Request to unlock payment sent to customer

1.4.13 DEPRECATED *POST* Add tracking number (*Private*)

1.4.13.1 Description

Use Set Order Status request instead

Adds tracking number to [order](

1.4.13.2 Request `/api/v1/orders/${id}/addTrackingNumber`

Request parameters

Field	Type	Description
id	String	Order's id generated by Tezro

Body

Field	Type	Restrictions	Required	Description
trackingNumber	String	Must be valid tacking number	Yes	Used for tracking order's location by customer
trackingUrl	String	Must be valid url	No	Used for tracking order's location from given service url by customer

1.4.13.3 Response

Status	Body	Description
200	See BaseResponse	Request to unlock payment sent to customer

1.4.14 GET Orders (*Private*)

1.4.14.1 Description

Get list of orders

1.4.14.2 Request: `/api/v1/orders`

Request query parameters

See FindOrdersParams

Field	Type	Restrictions	Required	Description
offset	Number	Must be greater or equal to 0	No	Default: 0
limit	Number	Must be in range of 1-100	No	Default: 20
sort	Number	1 or -1	No	Ascending = 1 Descending = -1
status	String	Must be one of OrderStatus	No	Filters orders by current status

1.4.14.3 Response

Status	Body	Description
200	See Orders	List of orders

1.5 Notifications

For notifying shop Tezro API will send you some requests. Your endpoints must be available to correctly handle this requests

1.5.1 Confirm delivery address

When user scans QR and fills address information in Tezro App, Tezro API will send `POST` request to `confirmAmountUrl` provided by shop in process of creating order.

1.5.1.1 Request

Request body sent by Tezro

Field	Type	Description
orderId	String	Order's id
address	Address	Delivery address
signature	String	`md5` hash of `orderId` + `signKey` in `hex` representation. Empty string if `signKey` is not provided

1.5.1.2 Response

Expected response Body

Field	Type	Restrictions	Required	Description
orderId	String	Must be same id from request	Yes	Order's id
amountTotal	String	Must be string representation of number	No	Total amount of order. Default: item's amount
amountItems	String	Must be string representation of number	No	Amount of items in order.
amountShipping	String	Must be string representation of number	No	Amount of shipping. Default: 0
expiresAt	String	ISO8601 DateTime string. Must be greater than current time	No	If set, order's expiration time will be extended

1.5.2 Order's current status

As soon as order's status is changed will be sent `POST` request to `webhook url`. Max attempts of request after failed response is 5 for every order.

1.5.2.1 Request

As request's body will be sent Order

1.5.2.2 Response

Must be response success `HTTP` status code: 201 or 200

1.6 DTO and enumerations

1.6.1 Bad request exception

Field	Type	Required	Description
statusCode	Number	Yes	400
message	String[]	Yes	Read errors and fix them

1.7 Changelog

1.7.1 v2.8.0 – 27.08.2021

- Added optional `redirectUrl` and `confirmStatusUrl` fields to InputAddressDto and AddressDto:
  - `redirectUrl` - if set, after successfull payment customer will be redirected to given url address;
  - `confirmStatusUrl` - If set, overrides `webhook url` which set in Tezro App settings.

v2.7.1 – 02.08.2021

- Changed** added ISO 3661 alpha-2 or alpha-3 validation to 'country' property in InputAddressDto

v2.7.0 – 02.08.2021

- **Added** optional "email" field to InputAddressDto and AddressDto.
- **Added** support for address field on order init method in playground

v2.6.0 – 16.06.2021

- **Added** playground
- **Changed** Current document:
  - Moved all DTO definitions to separate page
- **Changed** OrderDto:
  - Removed optional field `trackingNumber`
  - Added optional field `customer`
- **NEW** requests:
  - **POST** Set order status
  - **GET** Get enumerations list
  - **GET** Get available currencies
  - **GET** Get available order statuses
  - **GET** Get available HMAC algorithms
- **DEPRECATED** requests:
  - **POST** Add tracking number
  - **POST** Confirm delivery