

# API Manual ETPA

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## Version History

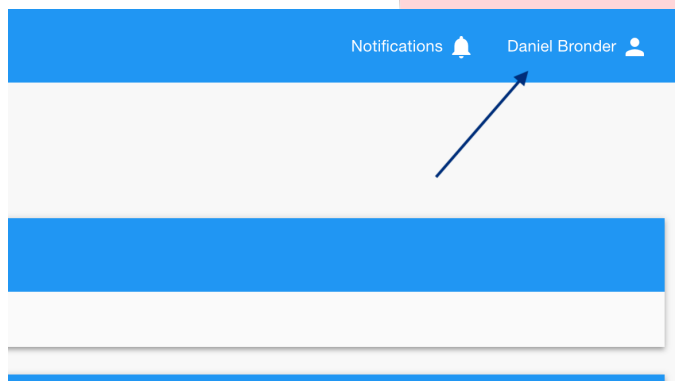
Version	Change	Version
12-11-2019	Small explanation changes of Order Status API and add deprecation date for Order API V1.0.	
05-12-2019	Add field for custom expiration time in orders.	
04-03-2020	Add new Trade API and add explanation of API pagination.	
11-03-2020	Add Reporting API V2.0	
22-04-2020	Update explanation about pagination and versions. Added wallet API V2.0	
09-11-2020	Add Matched status to documentation	
19-11-2020	Add status code	
09-08-2021	Update with new orderId parameters for trade and reporting API	
14-09-2021	Update with new API. Trades/{tradeId} and orders-trades/{tradeId}	
09-12-2021	Add explanation Rate Limiting	
11-01-2022	Add explanation websocket status	
25-01-2022	Add explanation about the Recent Trades API	
30-03-2022	Adding On Hold Order API documentation	
16-12-2022	Removal of Standard Orderbook data	
27-01-2023	Add SSE implementation	
07-02-2023	Add Platform Status API	
17-03-2023	Add GOPACS SSE and improve Announcement SSE	
04-07-2023	Add XBID information	
08-09-2023	Add XBID Public Trade information	
05-04-2024	Add XBID APIs for multiple delivery Area	
21-05-2024	Update Documentation with XBID filters	
29-10-2024	Add XBID Basket Order API, GOPACS API V2 and Iceberg orders	2.34

## 1. Use of the API and Server Sent Events

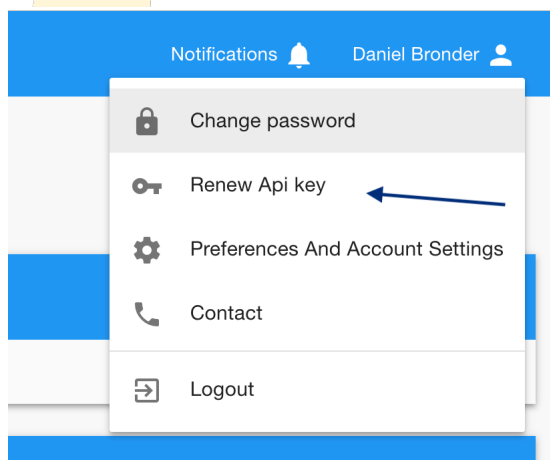
The API and WebSocket are two different ways to connect to the ETPA platform without using the Graphical User Interface (GUI) of the platform.

### 1.2 Generate API Key

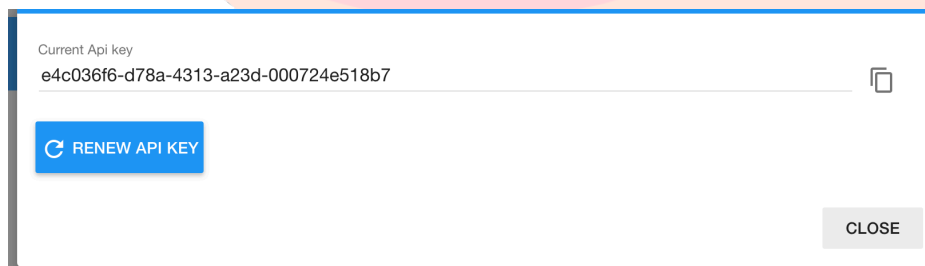
To use the API and Server Sent Events (SSE), you will need an API key. An API Key can be generated when you have an account. This can be done by login – click on name – renew API key.



Picture 1 - Generate API key 1/3



Picture 2 - Generate API key 2/3



Picture 3 - Generate API key 3/3

### 1.3 Connecting to the api

In order to connect to the API you need to add the api key to the header. The header should look like this:

```
Header ;{  
'api_key': 'xxx'  
}
```

### 1.4 Acceptance Environment

Within ETPA there are two different environments that can be used. One of them is the acceptance (ACC) environment. The acceptance environment can be found here: <https://acc-trading.etpa.nl>. The acceptance environment is an environment where every participant and/ or broker can get familiar with the application, API and SSE. We highly recommend using the API and/or SSE of acceptance first before connecting your software to the production (PROD) environment.

We have numerous versions of the API available. These versions are indicated in the URL.

On the acceptance environment you can get familiar with the API with Swagger interface: <https://acc-trading.etpa.nl/swagger-ui.html> (this is only on ACC and not on PROD).

At ETPA we can provide a tradingbot for testing capabilities. To test your software in different situations and scenario's. Please send an e-mail to [support@etpa.nl](mailto:support@etpa.nl) with your request.

### 1.5 Production Environment

When all the code of your software with our ACC environment is working as it should and as expected, the endpoint URL can be changed (declare it therefor at one place in your code) from the to the following PROD endpoint:

API: [https://trading.etpa.nl/public-api/{version}/electricity/\[API\]](https://trading.etpa.nl/public-api/{version}/electricity/[API])  
SSE: [https://trading.etpa.nl/\[CHANNEL\]](https://trading.etpa.nl/[CHANNEL])

Make sure that for this environment you use the correct API key of a user that has a PROD account and the correct rights (user role). API key of ACC will not work in PROD.

## 2. The API

There is a variation in versions of the APIs. Version 2 is used by Order, Trade, Wallet (transactions) and Reporting API. Version 1 is used by Order-status, Wallet (balance) and User API

The URL is as following:

**../{version}/electricity**

Within ETPA there are four different APIs that can be used. Certain account roles can only access certain APIs as shown in [Table 1](#).

API/User	Trade	Reporting	Wallet	View only
On Hold Order	Yes	No	No	No
Order V2.0	Yes	No	No	No
Order status	Yes	No	No	No
Platform status	Yes	Yes	No	No
Reporting V2.0	Yes	Yes	No	No
Reporting V3.0	Yes	Yes	No	No
Trade V2.0	Yes	No	No	No
User	Yes	Yes	Yes	No
Wallet V2.0	Yes	Yes	Yes	No
Wallet V3.0	Yes	Yes	Yes	No
XBID Contract API	Yes	No	No	No
XBID Order API V1.0	Yes	No	No	No
XBID Order Status V1.0	Yes	No	No	No
XBID Public Trade V1.0	Yes	No	No	No
XBID Reporting V1.0	No	Yes	No	No
XBID Status V1.0	Yes	No	No	No
XBID Trade V1.0	Yes	No	No	No
XBID Trade Report V1.0	Yes	No	No	No
XBID Wallet V1.0	No	No	Yes	No

*Table 1 - Access API*



## 2.0 Pagination

In our API we use different kind of pagination to limit the data you can get from us.

### 2.0.1 API Pagination 1.0

The Order, Reporting, Wallet and Trading API make use of pagination. This means that the data is limited. The reason for this, is because these API can give you a lot of data and therefore give a timeout. To solve this, we have limited the amount of data you are able to retrieve from the application. This amount can be set with the new parameter called count. The data is sorted on time, this means that the latest entry is the first in the entry in the list.

If you would like to retrieve more data, you can use the cursor parameter with the nextCursor value. This will give the next amount of data back.

### 2.0.1 API Pagination 2.0

In the new APIs we use a new kind of pagination. This pagination has more options and allows the user to customise his input. For some APIs this pagination is mandatory.

#### 2.0.1.1 Request

When doing a GET request with this pagination you need to add the following object to your request:

```
page=0&size=10
```

page => current page. The first page is always the first page.

Size => the amount of data you want to retrieve in your response. The minimum value is 1 and the maximum value is 100.

#### 2.0.1.2 Response

When the request is executed, you will get a response with the pagination. The response will look something like this:

```
"pageable": {
  "sort": {
    "empty": true,
    "unsorted": true,
    "sorted": false
  },
  "offset": 0,
  "pageNumber": 0,
  "pageSize": 10,
  "paged": true,
  "unpaged": false
},
"last": true,
"totalPages": 0,
"totalElements": 0,
```

```
"size": 10,  
"number": 0,  
"sort": {  
  "empty": true,  
  "unsorted": true,  
  "sorted": false  
},  
"first": true,  
"numberOfElements": 0,  
"empty": true
```



## 2.1 Congestion Management API

URL: `../public-api/2.0/electricity/congestion-spread-bucket`

This API can exclusively be used by GOPACS.

## 2.2 Congestion State Check API

URL: `../public-api/2.0/electricity/congestion-spread-bucket/status`

This API can exclusively be used by GOPACS.

## 2.3 GOPACS Order API

URL: `../1.0/electricity/orders/GOPACS`

This API will allow you to create orders for GOPACS only. Everything created here can be retrieved by the GOPACS platform and can be used for solving congestion problems.

### 2.3.1 GET

The GET request will return all current orders in the GOPACS orderbook.

### 2.3.2 POST

The POST request allows you to create orders for the GOPACS orderbook.

The following fields can be used

Field	Type	Optional/Mandatory	Options
orderType	String	Mandatory	BUY/SELL
participantId	String	Mandatory	
quantity	Number	Mandatory	
Start	Integer	Mandatory	
End	Integer	Mandatory	
Price	Integer	Mandatory	
EAN	Integer	Mandatory	
Metadata	Object	Optional	
customExpirationTime	Integer	Optional	
marketBased	Boolean	Mandatory	
facilityType	String	Optional (Mandatory if MarketBased = false)	
contractId	String	Optional	

usageFraction	Integer	Optional	
---------------	---------	----------	--

When an order is submitted with the Post request you will get a URL the order Status API. This allows to track the status of the order.

### 2.3.3 GET {ID}

This request allows you to get one specific order from the GOPACS orderbook.

### 2.3.4 PUT {ID}

This request allows you to change the order.

### 2.3.5 DELETE {ID}

This request allows you to delete the order.

## 2.4 GOPACS Order grid operator API v2

URL: ../ 2.0/electricity/grid-operator-order-book

This API can exclusively be used by GOPACS.

## 2.5 GOPACS Orderbook locking API

URL: ../ 1.0/electricity/gopacs-orderbook/status

This API can exclusively be used by GOPACS.

## 2.6 On Hold Order API

URL: /1.0/electricity/on-hold-orders

The on-hold orders API provides you the possibility to hold orders before they are going to be traded. You can hold your orders and once the orders are on hold they are not going to be traded with the orderbook.

### 2.6.1 GET

This will return all the orders which are currently on-hold.

The following parameters are used:

Parameter	Type	Optional/Mandatory
participantId	String	Optional

The participantId will return only the orders related to this participantId. It is only useful for brokers.

### 2.6.2 GET /{OrderId}

This will return one on-hold order.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

### 2.6.3 POST

To create an on-hold order and normal order should exist first. To convert an order using the API you need to provide a list with the normal order Ids. This will look as following.

```
["id1", "id2", "id3", ...]
```

The request should be sent as application/Json. The request should look like this:

```
[  
  "13106fa2-1e23-404d-a3e4-fc45208f5eda"  
]
```

### 2.6.4 DELETE

The request allows you to delete the on-hold order.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

## 2.7 Order API V2.0

URL: /1.0/electricity/orders

The following things are changed from version 1:

- You will get an error code and an error message when the order is incorrect.
- You will get an OrderID back from the post request to check the status of your order.

Intraday orders will be rejected from this API when XBID functionality is enabled. Ex-post orders will still work. You can create intraday orders using the following API: [XBID Order API](#)

### 2.7.1 GET

With a get request you can get all the orders that are currently in the orderbook.

The following parameters are used:

Parameter	Type	Optional/Mandatory	Options
my	Boolean	Optional	true/false
participantId	String	Optional	
timeblocks	String	Optional	INTRADAY, EXPOST

### 2.7.2 GET /{OrderID}

With the Get/{id} you can get a specific order from the orderbook.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

### 2.7.3 POST

With the Post request you can send an order to the orderbook.

When posting an order, you will need to use the participantId. This id can be retrieved from the [user API](#).

When you post an order, you will get an OrderId back from the system to check to current status of the Order you can use the [order status API](#).

An order will look like this:

```
{
  "allowedToBeUsedForIdcons": false,
  "customExpirationTime": 1465682400000,
  "ean": 871685920001768800,
  "end": 1465682400000 (epoch) or 2019-03-04T05:30:01+00:00 (ISO-8601),
  "metadata": {
    "key1": "value1",
    "key2": "value2"
  },
  "orderType": "BUY / SELL",
  "participantId": "292c3db8-3ee1-4999-bbed-d579225d1596",
  "price": 35,
  "quantity": 2,
  "start": 1465596000000 (epoch) or 2019-03-04T05:45:01+00:00 (ISO-8601),
  "timeblock": "INTRADAY/ EXPOST"
}
```

NOTE: End/ Start times are in Epoch time (milliseconds). You can generate an epoch time from here: <https://www.epochconverter.com/>

NOTE: customExpirationTime can't be used for EXPOST orders

See [Appendix A](#) for more information about the fields.

#### 2.7.4 PUT /{OrderID}

With the PUT request you can edit a specific order. The id is the id of the order you would like to edit. You also must add the order you have edited.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

#### 2.7.5 DELETE /{OrderID}

This request will delete a specific order.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

### 2.8 Order Status API

URL: /1.0/electricity/orders/status

The Order status API will give the current status or the history of the status of the order. The Order status API can only be accessed by people who have trading rights.

It will give you orders from both GOPACS orderbook and local intraday and Ex-post.

The Order Status API can be accessed by **../orders/status**

#### 2.8.1 GET /{OrderID}

This GET request will give you the history of the order status from a specific order. It can be accessed by **/{OrderID}**

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

The different statuses are:

Created: Order has been created  
Updated: Order has been updated (happened when a partial matched happens)  
Completed: Order has fully matched  
Cancelled: Order has been cancelled  
Failed: Order is invalid  
Matched: The order is matched with an Idcons order.

Reason: The reason why the order has failed/ cancelled.

When the order is partial matched the order will still have the status updated.

#### Scenarios:

##### Scenario 1

```
{
  "status": "CREATED",
  "reason": null,
  "createdTime": 1604938483028
},
{
  "status": "MATCHED",
  "reason": null,
  "createdTime": 1604938619459
},
{
  "status": "UPDATED",
  "reason": "Order updated because of a partial match. The remaining
quantity is: [20.0]",
  "createdTime": 1604938619962
}
```

This indicates that the order is created then matched with idcons and after the trade a new order is created with the remaining capacity.

##### Scenario 2:

```
{
  "status": "CREATED",
  "reason": null,
  "createdTime": 1604578894789
},
{
  "status": "MATCHED",
  "reason": null,
  "createdTime": 1604578910875
},
{
  "status": "COMPLETED",
  "reason": null,
  "createdTime": 1604578911301
}
```



This indicates that the order is created then fully matched with idcons. So, no remaining capacity is left.

#### Scenario 3:

```
{
  "status": "CREATED",
  "reason": null,
  "createdTime": 1604939274281
},
{
  "status": "UPDATED",
  "reason": "Order updated because of a partial match. The remaining
quantity is: [1]",
  "createdTime": 1604939275526
}
```

This indicates that the order is created and then partially matched.

#### Scenario 4:

```
{
  "status": "CREATED",
  "reason": null,
  "createdTime": 1604939218739
},
{
  "status": "COMPLETED",
  "reason": null,
  "createdTime": 1604939220373
}
```

This indicates that the order is created and then fully matched.

#### 2.8.2 GET /{OrderID}/current

This GET request will give you the status of the Order. It can be accessed by **/ {OrderID} /status**

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

#### 2.8.3 GET /basket/{basketId}

*Version: 2.31*

For local intraday\* you can create basket orders. With this endpoint you can retrieve the status of the basket.

\*: Local intraday can only be used when XBID is disabled

## 2.8.4 GET /basket/{basketId}/current

Version: 2.31

For local intraday\* you can create basket orders. With this endpoint you can retrieve the current status of the basket.

\*: Local intraday can only be used when XBID is disabled

## 2.9 Platform Status API

URL: /1.0/announcement/platform-status

The platform Status API will give you information about the status of the ETPA Platform

### 2.9.1 GET /announcement

This URL will give you all the announcements of the application

### 2.9.2 GET /announcement/{id}

This URL will give you an announcement based on an ID.

The following parameters are used:

Parameter	Type	Optional/Mandatory
announcementId	String	Mandatory

### 2.9.3 GET /announcement/getActiveAnnouncements

This URL will give you all the active announcements.

## 2.10 Reporting API V2.0

URL: 2.0/electricity/reporting/order-trades

The reporting API is used for reporting purposes. The reporting API can be used by users who have trade, wallet or reporting access.

### 2.10.1 GET Orders-trades

Within the Reporting API there are two options. The first option is to get all the orders and trades. The endpoint of this is: `../order-trades..`

This API makes use of Rate limiting. Please see [Appendix B](#) for the explanation of rate limiting.

This API also make use of pagination version 1.

The following parameters are used for this request:

Parameter	Type	Optional/Mandatory	Options
participantId	String	Optional	
orderId	String	Optional	
tradeId	String	Optional	
Start	Integer	Optional	
End	Integer	Optional	
Filter	String	Optional	Creation, Transaction

#### 2.10.2 GET Orders-trades/{tradeId}

This URL of the tradeAPI will only give you the trades based on the traded.

The following parameters are used:

Parameter	Type	Optional/Mandatory
tradeId	String	Mandatory

#### 2.10.3 GET Pv-party-participant

The second option within the reporting API is to retrieve all the trades from the participants from the pv-party. This enable pv-parties to get the trade information of their connected pv-party clients, no order information is given to the pv-party. The connection of participants to a PV-party is done by the ETPA admin in our system. The endpoint of this is: **../pv-party-participants**.

This endpoint makes use of pagination version 1.

The following parameters are used:

Parameter	Type	Optional/Mandatory
Start	Integer	Optional
End	Integer	Optional

### 2.11 Reporting API V3.0

This enable pv-parties to get the trade information of their connected pv-party clients, no order information is given to the pv-party. The connection of participants to a PV-party is done by the ETPA admin in our system. The endpoint of this is: **../pv-party-participants**.

This API makes use of pagination Version 2.

The following parameters are used:

Parameter	Type	Optional/Mandatory
StartDate	Integer	Optional
EndDate	Integer	Optional

## 2.12 Trade API V2.0

The trade API can only be used by participants who have trading rights. The API can be accessed from `../public-api/2.0/electricity/trades`.

### 2.12.1 GET Trades – DEPRECATED

THIS REQUEST IS NOT SUPPORTED ANYMORE  
PLEASE HAVE A LOOK AT THE V3 API

In the Trade API, we have introduced pagination. The reason is that when you apply no filters your request won't be time-out and you won't be overloaded with data.

When you don't provide any parameters, the application will return with the last 100 trades and give you the option to get the next 100 trades. To do this you use the cursor parameter with nextCursor value that has been given to you from the response.

It makes use of pagination V1.0

The following parameters are used:

Parameter	Type	Optional/Mandatory	Options
My_own_trades	Boolean	Optional	
participantId	String	Optional	
orderId	String	Optional	
tradeId	String	Optional	
Start	Integer	Optional	
End	Integer	Optional	
Field	String	Optional	START, END, EXECUTED
Timeblocks	String	Optional	INTRADAY, GOPACS, EXPOST

### 2.12.2 GET trades/{tradeID} - DEPRECATED

THIS REQUEST IS NOT SUPPORTED ANYMORE

This API will give you the trade back from the traded.

The following parameters are used:

Parameter	Type	Optional/Mandatory
tradeId	String	Mandatory

### 2.12.3 GET trades/recent

The recent trades will only your trades back from the last 2 days. The participantId is only useful for brokers.

The pagination works slightly different than the other APIs. It will return the first 1000 results and after that you can add the page number as a parameter to get the remaining results.

The following parameters are used:

Parameter	Type	Optional/Mandatory
participantId	String	Optional
pageNumber	Integer	Optional

## 2.13 Trade API V3

URL: ../3.0/electricity/trades

### 2.13.1 GET Trades

URL: 2.0/electricity/trades

The trades API V3 makes use of the pagination 2.0.

This trades API will allow you to retrieve the trades sorted by latest first.

The following parameters are used:

Parameter	Type	Optional/Mandatory	Options
My_own_trades	Boolean	Optional	
participantId	String	Optional	
orderId	String	Optional	
tradeId	String	Optional	
Start	Integer	Optional	
End	Integer	Optional	
Field	String	Optional	START, END, EXECUTED

Timeblocks	String	Optional	INTRADAY, GOPACS, EXPOST
------------	--------	----------	--------------------------------

### 2.13.2 GET trades/{tradeID} - DEPRECATED

URL: 2.0/electricity/trades/{tradeID}

This request allows you to retrieve a specific trade

### 2.14 User API

URL: 2.0/electricity/users

The user API is the API which will give you all the information about an individual and all the information about the participants. The User API can be accessed by Trade, Report and Wallet users. The endpoint of the user API is as follows: **../users.**

#### 2.14.1 GET Individual

This request will give you the information about you as an individual. To get the information about the individual add **../individual** to the endpoint of the API.

#### 2.14.2 GET Participants

This request will give you the information of the participants that are representing you. To retrieve this information, you will need to add the **../participants** to the endpoint of the User API.

From this response you will get an id. This id is your participantId.

### 2.15 Wallet API V2.0

URL: 2.0/electricity/wallets

The Wallet API provides wallet data about a participant and it will give you the transactions. The Wallet can be used by participant who has reporting, trade or wallet access. The endpoint of the wallet API is: **../wallets.**

#### 2.15.1 GET Balance

This endpoint will give you the balance in JSON format.

The following parameters are used:

Parameter	Type	Optional/Mandatory
-----------	------	--------------------

participantId	String	Optional
---------------	--------	----------

### 2.15.2 GET Transactions

This get request will return all the transactions that have been made from a participant. The endpoint for this request is: `../transactions/`. The transactions call makes use of pagination. Therefore, the data is limited to 100. For more information about pagination [see this explanation](#).

## 2.16 Wallet API V3.0

URL: `3.0/electricity/wallets`

### 2.16.1 GET Balance

This endpoint will give you the balance of your trader wallet and XBID wallet.

The following parameters are used:

Parameter	Type	Optional/Mandatory
participantId	String	Optional

Example response:

```
[
  {
    "walletBalance": 1196101.7695,
    "walletType": "XBID"
  },
  {
    "walletBalance": 27886135.30275,
    "walletType": "TRADER"
  }
]
```

## 2.17 XBID Contract API V1.0

URL: `1.0/xbid/active-contracts`

The XBID contract API will return all the active contracts for XBID. Even though you can't create orders with the contractId it will give you an indication when the contracts will be opened for trading.

The following parameters are used:

Parameter	Type	Optional/Mandatory	Options
-----------	------	--------------------	---------

deliveryArea	String	Mandatory	NL-TTN, DE-50HzT, DE-AMP, DE-TNG, DE-TTG
product	String	Optional	QUARTER, HOUR, HALF-HOUR

## 2.18 XBID Order API V1.0

URL: 1.0/xbid/electricity/orders

The XBID order API will be used for creating orders for XBID. This API will also function in case of a disconnection of XBID.

**Be aware:** In case the XBID connection gets lost. The new orders which are created with the XBID order API will be automatically forwarded to the local intraday orderbook. You can use the XBID Status API for the current connection of XBID.

### 2.18.1 GET Order

With the GET request you can retrieve all the orders which are currently in the orderbook. This will display both your own orders, but also the orders from other exchanges.

The following parameters are used:

Parameter	Type	Optional/Mandatory	Options
My	Boolean	Optional	
participantId	String	Optional	
Start	Integer	Optional	
End	Integer	Optional	
deliveryArea	String	Mandatory	NL-TTN, DE-50HzT, DE-AMP, DE-TNG, DE-TTG

### 2.18.2 POST Order

This post request will allow you to create orders for XBID.

When posting an order, you will need to use the participantId. This id can be retrieved from the [user API](#).

When you post an order, you will get an OrderId back from the system to check to status of the Order. The OrderId can be used in the [order status API](#).

An order will look like this:

```
{
```



```

"orderType": "BUY / SELL",
"xbidOrderType": "REGULAR/ ICEBERG",
"participantId": "292c3db8-3ee1-4999-bbed-d579225d1596",
"capacity": 2,
"deliveryStartTime": 1465596000000,
"deliveryEndTime": 1465682400000,
"unitPrice": 35,
"metadata": {
  "key1": "value1",
  "key2": "value2"
},
"customExpirationTime": 1465682400000,
"deliveryArea": "NL / NL - TTN / 10YNL-----L",
"orderStatus": "ACTIVE / HIBERNATE",
"orderExecution": "NON/ FOK",
"allowedForLocalMarket": "false",
"orderVersion": {
  "revisionNo": 0,
  "xbidOrderId": 0
},
"showCapacity": 2,
"pricePerDelta": 2
}

```

The field `allowedForLocalMarket` will be used once there is a disconnection with XBID. This will only be applied for newly created orders. We will not transfer orders from XBID to the local market and vice versa.

If the field is false the order will not be created for the local intraday if the XBID connection is down.

If the field is true the order will be created for the local intraday if the XBID connection is down.

### *Iceberg orders*

In the API it is also possible to create iceberg orders. Iceberg orders can be created by setting the `xbidOrderType` to ICEBERG. The part of the order that is visible in the orderbook is called a slice.

When Iceberg orders are created the `showCapacity` field is mandatory. This is the capacity that is visible in the orderbook (for outside). This must be between 5 and 999.

The capacity of the order is the total capacity of the order.

The `pricePerDelta` is optional. This is the delta which will be applied to each new slice.

Buy: Between 0 and -5

Sell: Between 0 and 5

NOTE: End, Start and custom expiration times are in Epoch time (milliseconds). You can generate an epoch time from here: <https://www.epochconverter.com/>

### 2.18.3 GET Order {ID}

This API will get you a specific order from the Orderbook. You must use the ETPA order ID and not the XBID order ID.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

#### 2.18.4 PUT Order {ID}

This request allows you to change the order you have created. There are a few rules in place.

- You can only change the order status from active to hibernate and vice versa if you don't change any of the other fields.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

For the PUT request you are also allowed to add the orderVersion to the order request. This can be helpful if you only want to change the order depending on certain scenarios. This option is completely optional.

The orderVersion object works as following:

When sending in an order with a revisionNo and xbidOrderId. The application will check the revisionNo and the xbidOrderId and if both these values are in line with what the application knows the application will send your order to XBID. If your revisionNo or xbidOrderId is incorrect the put request will be rejected and following error will be thrown:

```
Error code: 400
Error: The revisionNo and xbidOrderId provided in your order are invalid.
Current revisionNo is [%s] and xbidOrderId [%s]
```

Make sure to check the revisionNo once the order is updated. In some cases, XBID will delete the order and create a new one. In that case the xbidOrderId will change and the revisionNo will be reset to 1.

Examples:

- Update order with increase of price:
  - o RevisionNo reset.
  - o XbidOrderId changed.
- Update order with decrease of price:
  - o RevisionNo reset.
  - o XbidOrderId changed.

- Update order with increase of quantity:
  - o RevisionNo reset.
  - o XbidOrderId changed.
- Update order with decrease of quantity:
  - o RevisionNo increased by one.
  - o XbidOrderId not changed.

Note: If you are sending in an order in a put request with the revisionNo the xbidOrderId is mandatory as well. This is **not** the same as the ETPA order id.

#### 2.18.5 DELETE Order {ID}

This request allows you to delete a specific order from the XBID/ intraday orderbook. You should use the ETPA order ID here.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

### 2.18.6 POST Basket

The basket orders allow you to submit multiple XBID orders at once in a list. The same payload can be used as in XBID orders API.

Within the basket you must provide a basket Execution Type. The types are as following:

- NONE

Each order will be checked individually by Etpa and XBID if one of the orders doesn't have a valid payload the order will be rejected and the rest of orders will be processed.

- VALID

All the orders within the basket must be valid. The payload must be valid if one the orders is invalid the whole basket will be rejected and all the orders will be cancelled.

- LINKED

All the orders must be created with execution type FOK. All the orders inside the basket must be executed fully and if at least one order cannot be fully executed the orders in the basket will be fully rejects.

When a basket order passes the validation a link to the basket status order API will be provided. This contains an id of the basket. The basket order status API can be used to get the status of the basket and it's orders.

### 2.18.7 GET Half Hour

This API request will return all the orders in the half hour product. There are 2 mandatory fields which are:

The following parameters are used:

Parameter	Type	Optional/Mandatory	Options
My	Boolean	Optional	
deliveryArea	String	Mandatory	NL-TTN, DE-50HzT, DE-AMP, DE-TNG, DE-TTG
deliveryDay	String	Mandatory	

### 2.18.8 GET Hour

This API request will return all the orders in the hour product. There are 2 mandatory fields which are:

The following parameters are used:

Parameter	Type	Optional/Mandatory	Options
My	Boolean	Optional	
deliveryArea	String	Mandatory	NL-TTN, DE-50HzT, DE-AMP, DE-TNG, DE-TTG
deliveryDay	String	Mandatory	

#### 2.18.9 GET Quarter

This API request will return all the orders in the quarter product. There are 2 mandatory fields which are:

The following parameters are used:

Parameter	Type	Optional/Mandatory	Options
My	Boolean	Optional	
deliveryArea	String	Mandatory	NL-TTN, DE-50HzT, DE-AMP, DE-TNG, DE-TTG
deliveryDay	String	Mandatory	

#### 2.19 XBID Order Status API

URL: 1.0/xbid/orders/status

The XBID Order status API will give the status or the history of the status of the order. The Order status API can only be accessed by people who have trading rights.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

##### 2.19.1 GET {ID}

URL: ../status/{ID}

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

This request will give you the full history of the status of the order. The following status are visible.

CREATED -> Order Created  
UPDATED -> Order Updates  
COMPLETED -> Order Fully matched  
CANCELLED -> Order Cancelled  
FAILED -> Order is invalid  
XBIDRECEIVED -> Order is received by XBID, but not processed  
XBIDACCEPTED -> Order is processed and accepted by XBID

It could be in some cases that you receive the XBID Accepted before the XBID received. This is because the sending of messages from XBID is asynchronous.

#### 2.19.2 GET {ID}/ Current

URL: ../status/{ID}/current

This request will get you the status of the order.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

#### 2.19.3 GET Basket ID

URL: ../status/basket/{ID}

The basket status order API allows you to retrieve the status of the Basket. It will contain a list of the status of all the orders in the basket

#### 2.19.4 GET Basket ID Current

URL: ../status/basket/{ID}/current

This URL will provide you with the status of each order in the basket.

### 2.20 XBID Public Trade API V1

URL: ../1.0/xbid/public-trades

This request will give you the public trades in Delivery area NL.

#### 2.20.1 GET

This request will give you all the public trades in Delivery area Netherlands. There is a possibility to apply a filter for your search request.

Supported search fields:

buyDeliveryArea -> Buy Delivery Area

```
sellDeliveryArea -> Sell Delivery Area  
start -> Start date of the trades  
end -> End date of the trades
```

### Supported searchPatterns:

```
buyDeliveryArea/ sellDeliveryArea -> NL/ 10YNL-----L  
start/end -> 2023/08/09
```

If you want to retrieve trades between 2 start dates you can apply the following searchPattern:

```
2023/08/08#2023/08/09
```

This example will give you all the public trades from 08-08-2023 00:00 (UTC) until 09-08-2023 00:00 UTC

#### 2.20.2 GET Recent

URL: 1.0/xbid/public-trades/recent

This API will give you all the public trades from the last 2 days. No filtering can be applied here.

#### 2.21 XBID Status API V1

URL: 1.0/xbid/status

This API will give you the status of the XBID connection. If XBID is connected or disconnected

##### 2.21.1 GET

This request will give you the status of the XBID connection.

```
TRUE -> Connected  
FALSE -> Disconnected
```

#### 2.22 XBID Trade API V1

URL: 1.0/xbid/trades

##### 2.22.1 GET /recent

This request will give you all your XBID trades from the last 48 hours.

The following parameters are used:

Parameter	Type	Optional/Mandatory
participantId	String	Optional

## 2.23 XBID Trade Report API V1

URL: 1.0/xbid/trades/reports

### 2.23.1 GET

URL: 1.0/xbid/trades/reports

With this request you will be able to get all the trades in XBID. There are a few filters which you can apply.

The following parameters are used:

Parameter	Type	Optional/Mandatory	
myOwnTrades	Boolean	Optional	
deliveryStart	Integer	Optional	
deliveryEnd	Integer	Optional	
fieldFilter	String	Optional	DELIVERY_START_TIME, DELIVERY_END_TIME, EXECUTED

### 2.23.2 GET {ID}

URL: 1.0/xbid/trades/reports/{ID}

This request will give the response based on 1 trade ID.

The following parameters are used:

Parameter	Type	Optional/Mandatory
id	String	Mandatory

### 2.23.3 GET /order/ {ID}

URL: 1.0/xbid/trades/reports/order/{orderId}

This request will give you the response based on 1 order ID.

The following parameters are used:

Parameter	Type	Optional/Mandatory
orderId	String	Mandatory

## 2.24 XBID Wallet API V1.0



With XBID we have separated our wallets which means before you trade for XBID you need to transfer money from your trader wallet to your XBID wallet. This can be done in the UI, but also in the API. This API gives you the information about all the transactions which have happened, but also the ability to transfer money between the trader and XBID wallet.

#### 2.24.1 POST Deposit {amount}

URL: `1.0/xbid/wallets/deposit/{amount}`

This request allows you to deposit money from the trader wallet to the XBID wallet. The amount must be equal or lower than the current amount in your trader wallet.

#### 2.24.2 GET Transactions

URL: `1.0/xbid/wallets/transactions`

This request allows you to get all the XBID wallet transactions within a certain timeframe. This request also makes use of Pagination V2.0. For more information about this, please see [here](#).

The following parameters are used:

Parameter	Type	Optional/Mandatory
participantId	String	Optional
startDateTime	Integer	Mandatory
endDateTime	Integer	Mandatory

#### 2.24.3 POST Withdrawal {amount}

URL: `1.0/xbid/wallets/withdraw/{amount}`

This request allows you to withdrawal money from the XBID wallet to the trader wallet. The amount must be equal or lower than the current amount in your XBID wallet.

### 2.25 Status code

The API can give you multiple status code. The following status code are most common:

Code	Explanation
<b>200</b>	The request has been processed successfully
<b>204</b>	The request has been processed correctly, but there is no data available
<b>400</b>	The request is invalid
<b>403</b>	You are either not allowed to do it or the IP you are using is not known at ETPA



## Appendix A

Fields used for creating an order.

Parameter	Type	Description	Required
<b>allowedToBeUsedForIdcons</b>	boolean	If the order is allowed to be used for idcons purposes and only possibly when EAN is correct and the participant is allowed to create orders for IDCONS.	NO
<b>customExpirationTime</b>	integer	Option for custom expiration time. The default is always 15 minutes before delivery. The time should always be in quarters (so only 00,15,30,45). This parameter should be defined in epoch time in milliseconds. This option <b>cannot</b> be used when creating an ex-post order	NO
<b>ean</b>	integer	The ean code of the order	NO
<b>end</b>	integer	The end time of the order in epoch time in milliseconds or in ISO-8601 date format.	YES
<b>metadata</b>	HashMap with key and value	Additional information that can be used for internal administration	NO
<b>ordertype</b>	String	The type of the order: BUY or SELL	YES
<b>participantId</b>	String	The id of the participant	YES
<b>price</b>	integer	The price of the order	YES
<b>quantity</b>	integer	The quantity of the order	YES
<b>start</b>	integer	The end time of the order in epoch time in milliseconds or in ISO-8601 date format.	YES
<b>timeblock</b>	String	The timeblock of the order: INTRADAY, EXPOST	YES

## Appendix B

Rate limiting explained:

You will have a maximum of 30 request available and after every 2 seconds you will get another request, so let's say you do a request then you will 29 requests remaining and after 2 seconds another request will be added, so you will have 30 requests again. The total of request cannot be more than 30. If you do exceed the requests, you will get the following error:

```
{ "status": 429, "error": "Too Many Requests", "message": "You have exhausted your API Request Quota" }
```

In the header there will be 2 keys which will tell you how many requests you have left and how long you will have to wait before you can do another request these keys are called:

`X-Rate-Limit-Retry-After-Seconds`

and

`X-Rate-Limit-Remaining.`

If you have any questions, please send a mail to [support@etpa.nl](mailto:support@etpa.nl)