

BITOCTO
API DOCUMENTATION
v1.0.1

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General API Responses

All responses will be returned in JSON format. If an API method successfully executed, it will returned in format:

```
cmd_res: "00",
cmd_text: "Success"
output: {
  /* returned output data */
}
```

Public API

These APIs provide open data for public. All Public API can be accessed from URL:

```
https://api3rd.bitoccto.com/third-api/public/[Public API Method]
```

Public API request must be called via GET method. That is, any necessary parameter must be specified in URL.

Supported Currency Pair

Currently Bitoccto API supports the following currency pair:

1. BTC-IDR
2. DGB-IDR
3. DOGE-IDR
4. ETH-IDR

List of Public API methods

get-order-book

Returns currently opened trading position of specified currency pair.

Parameter	Mandatory	Description	Value		Default
limit	Yes	Max. number of transaction returned	Integer		None
offset	Yes	Skips latest <i>n</i> opened trading position. If none skipped, set value to 0	Integer		None
market	Yes	Selected currency pair.	All supported currency pair.		None

Sample link:

```
https://api3rd.bitoccto.com/third-api/public/get-order-book?limit=10&offset=0&market=BTC-IDR
```

Output data:

```
{
  "trade": [
    {
      "amount": 0.001000000000000000,
      "id": 4837,
      "idr": 168000.000000000000000000,
      "price": 168000000.000000000000000000,
      "status": "Open",
      "txn_time": "2018-10-18T06:43:35",
    }
  ]
}
```

```

    "txn_type": "Buy"
  },
  {
    "amount": 0.0009717500000000,
    "id": 4614,
    "idr": 159679.0000000000000000,
    "price": 164321000.0000000000000000,
    "status": "Open",
    "txn_time": "2018-08-07T14:22:02",
    "txn_type": "Sell"
  }
]
}

```

get-market-info

Returns last 24 hours general market information of specified currency pair.

Parameter	Mandatory	Description	Value	Default
market	No	Selected currency pair. Returns information of all currency pair if not specified	All supported currency pair.	None

Specifically for `get-market-info` method, the return value will be:

Sample link:

```
https://api3rd.bitoccto.com/third-api/public/get-market-info
```

Output data:

```

{
  "cmd_res": "00",
  "cmd_text": "Success",
  "server_time": "2018-10-18T06:43:35",
  "output": {
    "BTC-IDR": {
      "change": 5.00,
      "high": 170000000.0,
      "lastprice": 168000000,
      "low": 165000000.0,
      "volume": 503000,
      "highest_buy": 170000000.0,
      "lowest_sell": 180000000.0
    },
    "DGB-IDR": {
      "change": 19900.00,
      "high": 1000000.0,
      "lastprice": 1000000,
      "low": 5100.0,
      "volume": 1051000,
      "highest_buy": 1000000.0,
      "lowest_sell": 1100000.0
    },
    ...
  }
}

```

get-trade-history

Returns last trading transaction performed on specified currency pair.

Parameter	Mandatory	Description	Value	Default
limit	Yes	Max. number of transaction returned.	Integer	None
market	Yes	Selected currency pair.	All supported currency pair.	None
offset	Yes	Skips latest <i>n</i> transaction position. If none skipped, set value to 0	Integer	None

Sample link:

```
https://api3rd.bitoccto.com/third-api/public/get-trade-history?limit=10&offset=0&market=BTC-IDR
```

Output data:

```
{
  "trade": [
    {
      "amount": 0.001000000000000000,
      "id": 4837,
      "idr": 168000.000000000000000000,
      "price": 168000000.0000000000000000,
      "status": "Close",
      "txn_time": "2018-10-18T06:43:35",
      "txn_type": "Buy"
    },
    {
      "amount": 0.000971750000000000,
      "id": 4614,
      "idr": 159679.000000000000000000,
      "price": 164321000.0000000000000000,
      "status": "Close",
      "txn_time": "2018-08-07T14:22:02",
      "txn_type": "Sell"
    },
    {
      ...
    }
  ]
}
```

Private API

Private APIs enables you to perform various task on your account from third party trading application. You need to generate your API credentials (API key and secret key) at <https://member.bitoccto.com/settings/trade-api>. Be warned that these credentials must be secured.

There are only two permissions can be granted to API credentials:

Permission	Allowed Method
View Trading	get-assets, get-detail-assets, get-transaction-hist, get-my-trade-hist, get-my-open-trade
Trading	trade, cancel-trade

Authentication

To authenticate your request, you need to embed below data in HTML header to the following URL:

`https://api3rd.bitoccto.com/third-api/private`

Variable	Description
key	Your unique API key. Consisted of 32 alphanumeric characters. Example: 34A9DE7DD0126DF1A7EBBD300EA98C9F
sign	Encrypted POST data (?param1=val¶m2=val2&...) by HMAC-SHA512 method using secret key

Required Data

For each requests you need to include at least two variable below:

Variable	Description
nonce	An increment integer. Each nonce to send must be larger than previous sent nonce. For more information please refer to: https://en.wikipedia.org/wiki/Cryptographic_nonce
method	An method name you want to call

Note that all requests must be send via POST method.

Private API Methods

get-assets

Returns total balances of user's asset for each currency.

Parameters : N/A

```
Output data:
{
  "BTC": "0.12345678",
  "DGB": "12345.12345678",
  "DOGE": "12345.12345678",
  ...
}
```

get-detail-assets

Returns available amount and being traded amount of each currency.

Parameters : N/A

```
Output data:
{
  "BTC": {
    "available": "0.12345678",
    "openOrder": "0.12345678"
  },
  "DGB": {
    ...
  },
  ...
}
```

get-transaction-hist

Returns list of transaction history of all currency being done by user, whether deposit or withdrawal.

Parameter	Mandatory	Description	Value	Default
limit	No	Max. number of transaction returned	Integer	50

Output data:

```
{
  "deposit": [
    {
      "id": "123",
      "amount": "1000000",
      "coin": "IDR",
      "destination": "",
      "fee": "0",
      "txn_status": "Waiting Transfer",
      "txn_time": "2018-08-27T01:01:01"
    },
    {
      ...
    }
  ],
  "withdrawal": [
    {
      "id": "124",
      "amount": "500",
      "coin": "DGB",
      "destination": "D5WnvvREfwcCNm4pAMV7hQxv21Ttg3kuCY",
      "fee": "1",
      "txn_status": "Send Confirm",
      "txn_time": "2018-07-18T03:54:49"
    },
    {
      ...
    }
  ]
}
```

get-my-trade-hist

Returns list of trading history being done by user, whether sell or buy.

Parameter	Mandatory	Description	Value	Default
limit	No	Max. number of transaction returned of each currency pair	Integer	50
market	No	Selected currency pair. Returns transaction of each currency pair if not specified	All supported currency pair.	None

Output data:

```
{
  "BTC-IDR": [
    {
      "id": "123",
      "amount": "0.12345678",
      "price": "100000000",
      "total": "12345678",
    }
  ]
}
```

```

        "status": "Close",
        "txn_time": "2018-07-18T03:54:49",
        "txn_type": "Sell"
    },
    {
        ...
    }
],
"DGB-IDR": [...],
"DOGE-IDR": [...]
}

```

get-my-open-trade

Returns user's list of currently open trade, whether sell or buy.

Parameter	Mandatory	Description	Value	Default
limit	No	Max. number of transaction returned of each currency pair	Integer	50
market	No	Selected currency pair. Returns transaction of each currency pair if not specified	All supported currency pair.	None

```

Output data:
{
  "BTC-IDR": [
    {
      "id": "123",
      "amount": "0.12345678",
      "price": "100000000",
      "total": "12345678",
      "status": "Open",
      "txn_time": "2018-07-18T03:54:49",
      "txn_type": "Sell"
    },
    {
      ...
    }
  ],
  "DGB-IDR": [...],
  "DOGE-IDR": [...]
}

```

trade

Returns list of trading history being done by user, whether sell or buy.

Parameter	Mandatory	Description	Value	Default
market	Yes	Specified currency pair being traded	All supported currency pair.	None
price	Yes	Price of first Currency in currency pair in the value of second currency .	Integer (For crypto currency price in IDR)	None

type	Yes	Type of trading being committed: sell or buy.	"Sell" or "Buy"	None
amount	Yes	Amount of currency being traded.	Integer (IDR currency), Float (cryptocurrencies)	None

Output data:

```
{
  "id": "123",
  "amount": "0.12345678",
  "price": "100000000",
  "total": "12345678",
  "status": "Open",
  "txn_time": "2018-07-18T03:54:49",
  "txn_type": "Sell"
}
```

cancel-trade

Cancels specified opened trading position.

Parameter	Mandatory	Description	Value	Default
id	Yes	Specified trading position id	Integer	None

Output data : N/A