



API

快速上手 使用手册

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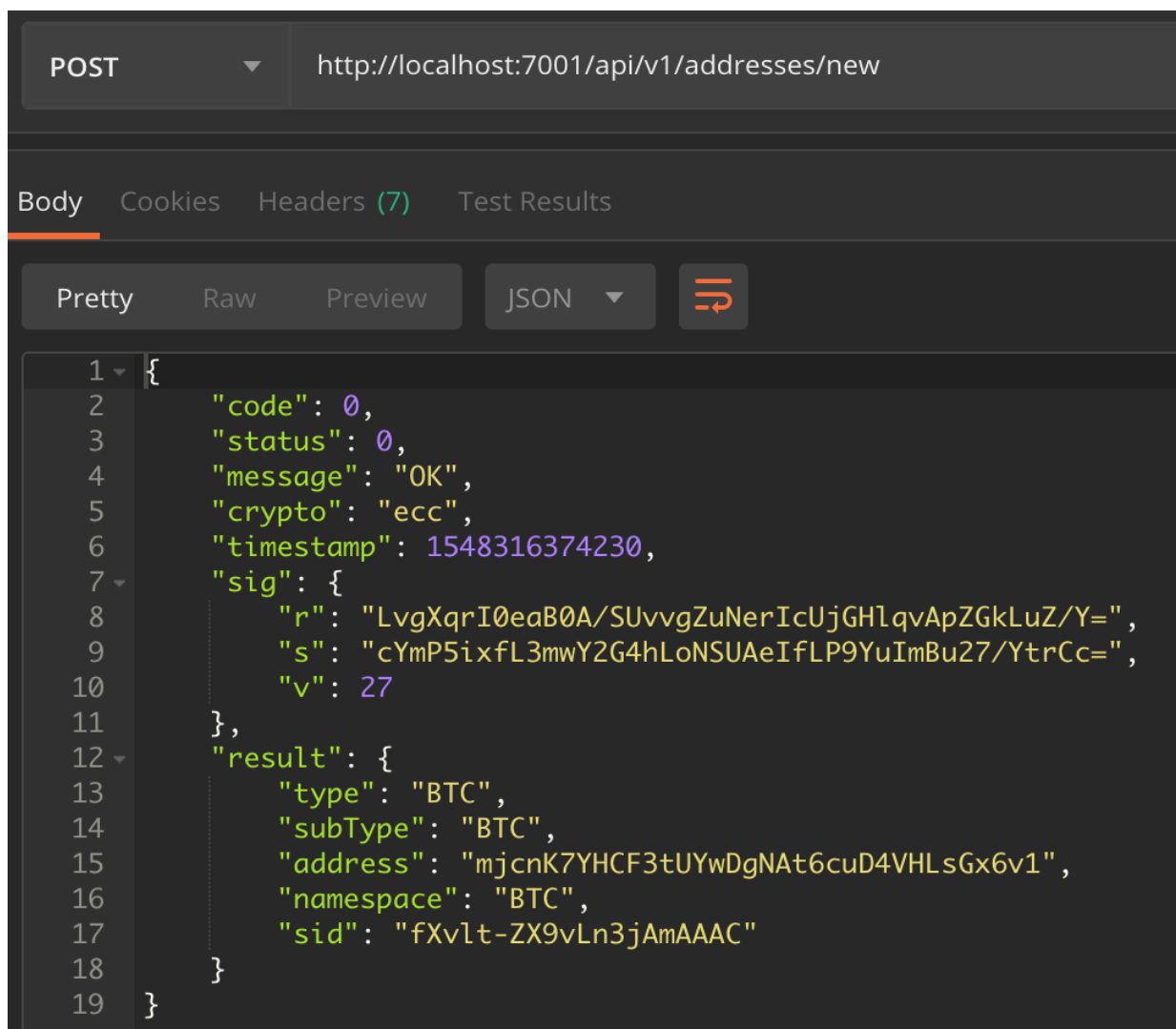
获取充值地址

说明

充值是瑶池的重要业务之一。用户需要在瑶池获取一个该币种的地址，然后用自己的钱包向该地址转账。

在瑶池系统中启动的每条区块链都需要配置节点，随着节点不断和链的最高区块同步，瑶池会通过扫描节点最新同步到的区块中被打包的每笔交易进行判断，然后根据不同情况区分转账类型并将交易的信息以订单形式存储数据库。考虑到区块链的分叉可能性，瑶池为防止错误记录分叉期弱势链上的交易，对每个链都设置了符合该链情况的“防分叉检测间隔”参数。换言之，瑶池只扫描当前最高区块头减去“防分叉检测间隔参数”的高度以下的区块。交易被记录进数据库后，瑶池会一直跟踪交易直到最终状态，也就是向节点查询交易哈希以确保交易仍然在链上有效并且最终不可逆，最终无论交易成功或失败，瑶池都会保证将状态以回调的形式通知客户。若瑶池没有成功记录入账交易，客户仍可以通过“重新扫描区块”的方式再次扫描区块。

示意图



```
POST http://localhost:7001/api/v1/addresses/new

Body Cookies Headers (7) Test Results

Pretty Raw Preview JSON

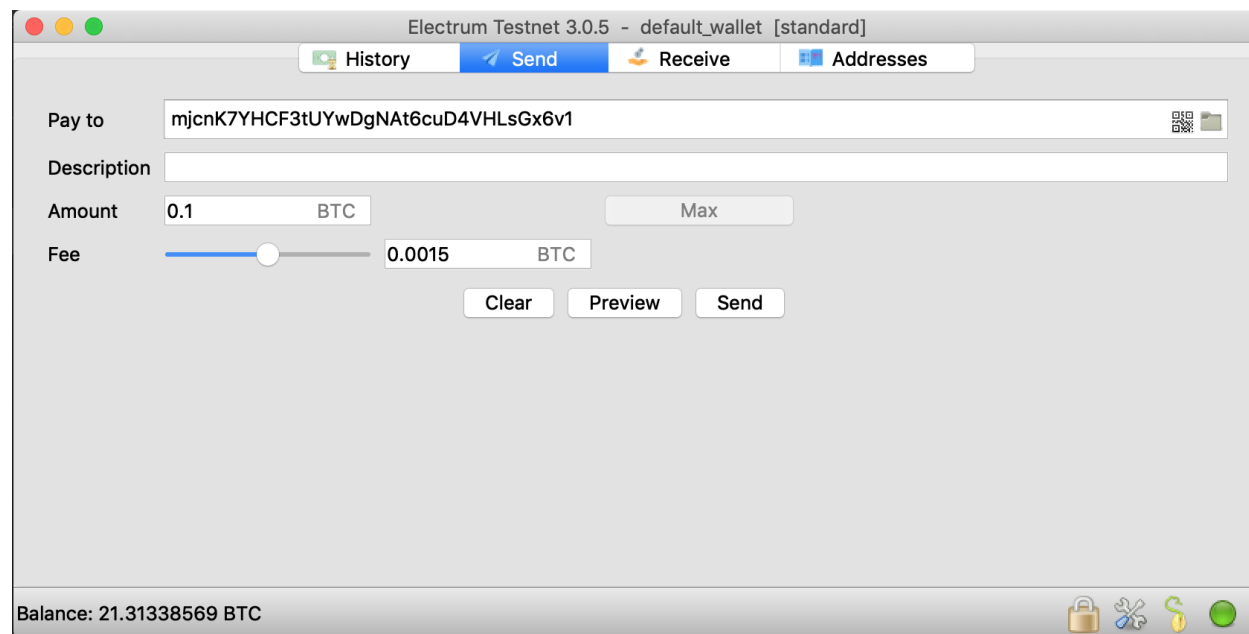
1 {
2   "code": 0,
3   "status": 0,
4   "message": "OK",
5   "crypto": "ecc",
6   "timestamp": 1548316374230,
7   "sig": {
8     "r": "LvgXqrI0eaB0A/SUvvgZuNerIcUjGHLqvApZGkLuZ/Y=",
9     "s": "cYmP5ixfL3mwY2G4hLoNSUAeIfLP9YuImBu27/YtrCc=",
10    "v": 27
11  },
12  "result": {
13    "type": "BTC",
14    "subType": "BTC",
15    "address": "mjcnK7YHCF3tUYwDgNA6cuD4VHLsGx6v1",
16    "namespace": "BTC",
17    "sid": "fXvlt-ZX9vLn3jAmAAAC"
18  }
19 }
```

充值

说明

通过上述步骤得到一个充值地址后，用自己的钱包软件向该地址转账。以下示意图是比特币钱包 Electrum 的使用界面。如果不熟悉钱包的安装和使用，请阅读“钱包安装和使用教程”。

示意图



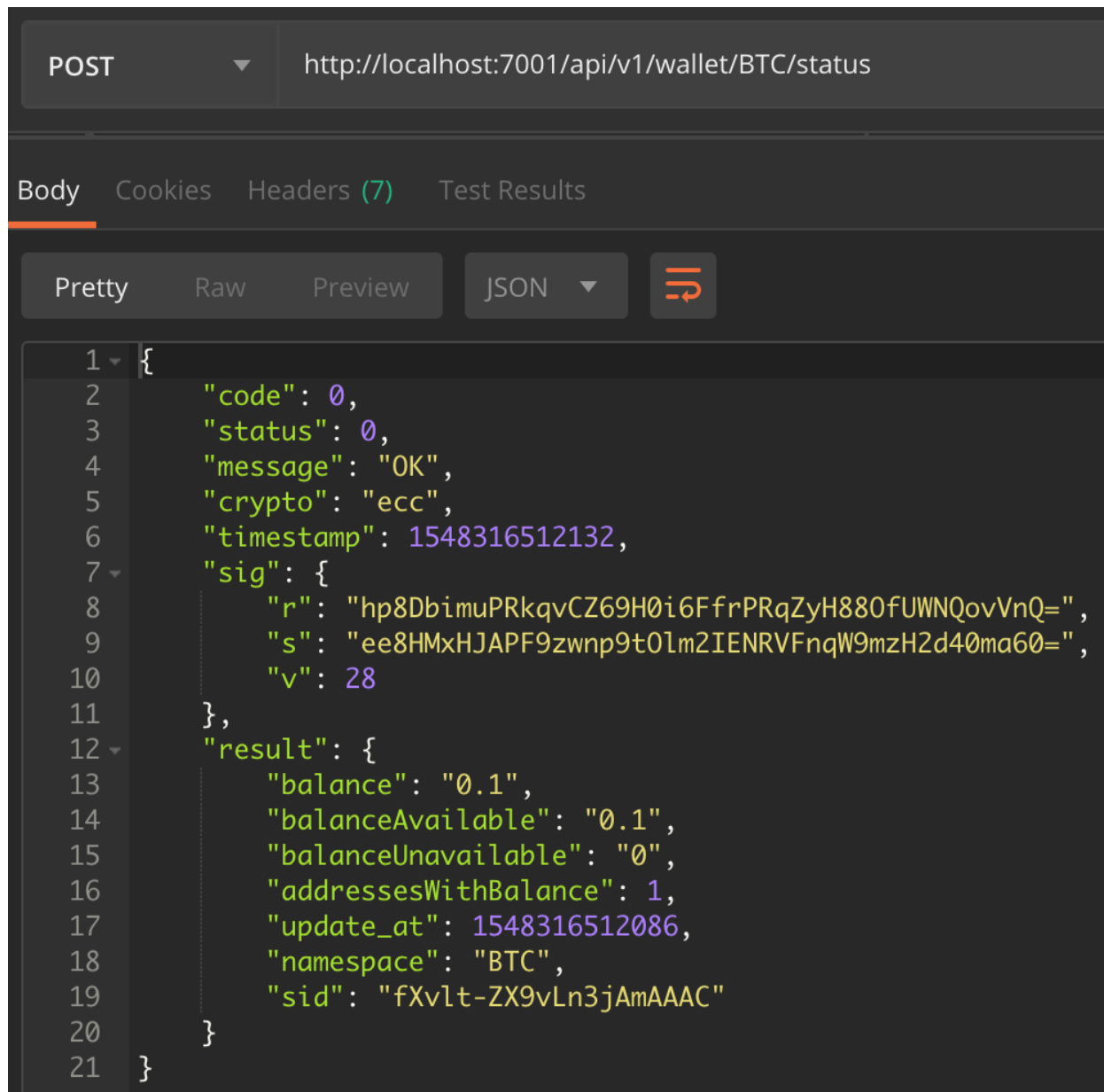
查询余额

说明

完成上述转账充值后，如果交易成功被广播，此时瑶池的资产余额应显示增加。

“balance” 字段为总余额，“balanceAvailable” 是可以用来作为出账交易的金额（例如提现、热转冷等）。

示意图



The screenshot shows a REST client interface with a POST request to `http://localhost:7001/api/v1/wallet/BTC/status`. The response is displayed in JSON format, showing a successful status with a balance of 0.1.

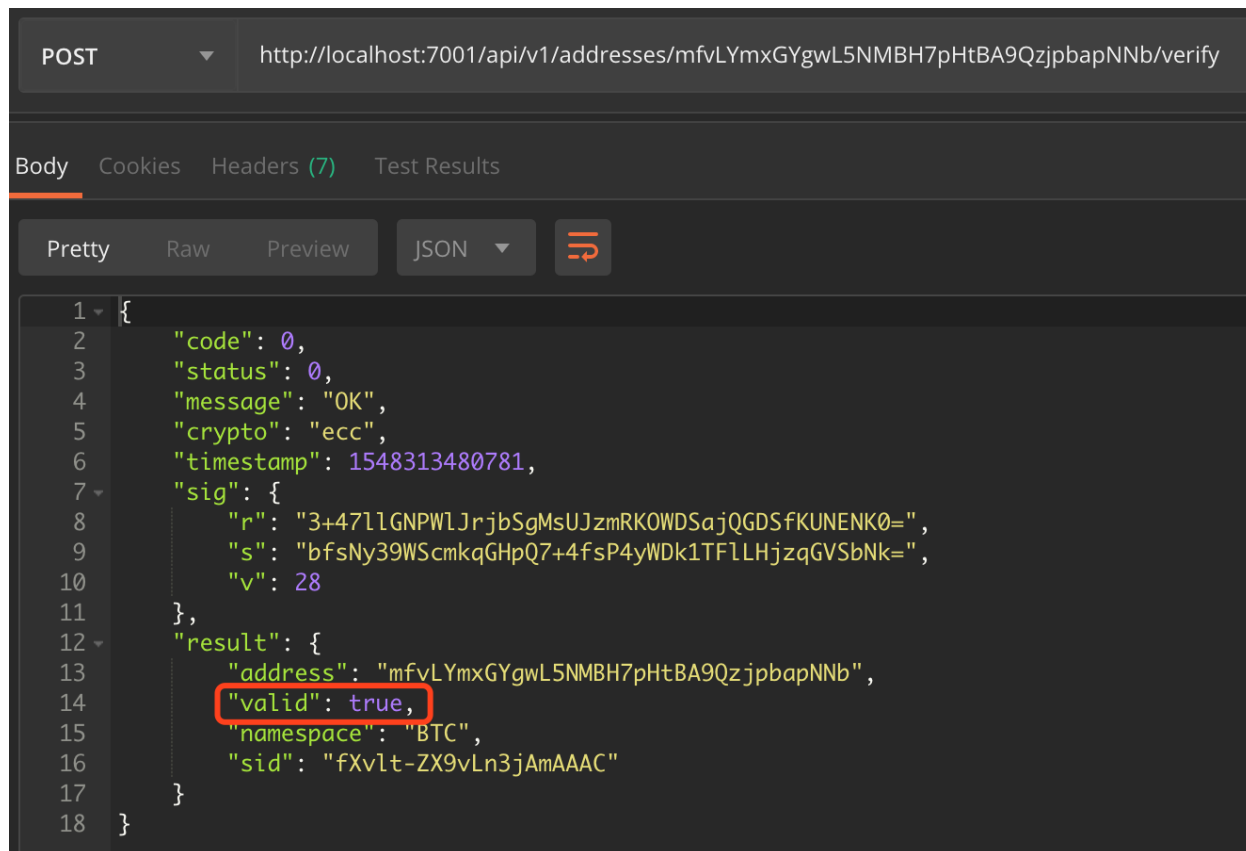
```
1 {
2   "code": 0,
3   "status": 0,
4   "message": "OK",
5   "crypto": "ecc",
6   "timestamp": 1548316512132,
7   "sig": {
8     "r": "hp8DbimuPRkqvCZ69H0i6FfrPRqZyH880fUWNQovVnQ=",
9     "s": "ee8HMxHJAPF9zwnp9t0lm2IENRVFnqW9mzH2d40ma60=",
10    "v": 28
11  },
12  "result": {
13    "balance": "0.1",
14    "balanceAvailable": "0.1",
15    "balanceUnavailable": "0",
16    "addressesWithBalance": 1,
17    "update_at": 1548316512086,
18    "namespace": "BTC",
19    "sid": "fXvlt-ZX9vLn3jAmAAAC"
20  }
21 }
```

验证提现地址有效性

说明

经上述操作瑶池现已有余额，可以处理提现。但在提现之前，应先验证到账地址有效性，防止提现因为提现地址不合法而失败。

示意图



```
POST http://localhost:7001/api/v1/addresses/mfvLYmxGYgwL5NMBH7pHtBA9QzjpbapNNb/verify

Body Cookies Headers (7) Test Results

Pretty Raw Preview JSON

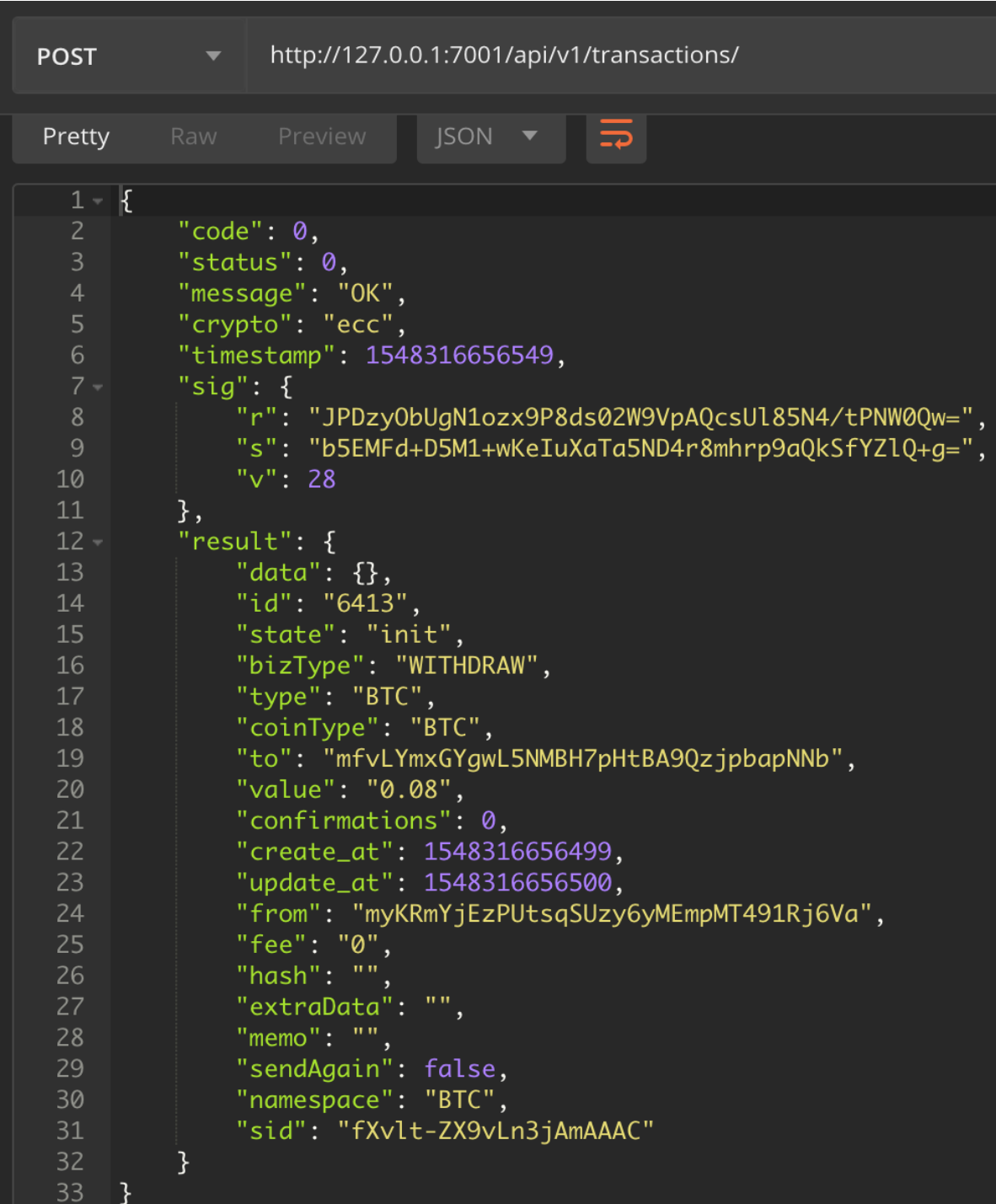
1 {
2   "code": 0,
3   "status": 0,
4   "message": "OK",
5   "crypto": "ecc",
6   "timestamp": 1548313480781,
7   "sig": {
8     "r": "3+4711GNPWLJrjbSgMsUJzmRKOWDSajQGDSfKUNENK0=",
9     "s": "bfsNy39WScmkqGhpQ7+4fsP4yWDk1TF1LHjzqGVSbNk=",
10    "v": 28
11  },
12  "result": {
13    "address": "mfvLYmxGYgwL5NMBH7pHtBA9QzjpbapNNb",
14    "valid": true,
15    "namespace": "BTC",
16    "sid": "fXvlt-ZX9vLn3jAmAAAC"
17  }
18 }
```

发起提现

说明

如果到账地址有效，可以发起提现并获得提现订单 ID，以下示意图显示得到订单 ID 6413。

示意图



```
POST http://127.0.0.1:7001/api/v1/transactions/

Pretty Raw Preview JSON ↻

1 {
2   "code": 0,
3   "status": 0,
4   "message": "OK",
5   "crypto": "ecc",
6   "timestamp": 1548316656549,
7   "sig": {
8     "r": "JPDzy0bUgN1ozx9P8ds02W9VpAQcsUl85N4/tPNW0Qw=",
9     "s": "b5EMFd+D5M1+wKeIuXaTa5ND4r8mhrp9aQkSfYZlQ+g=",
10    "v": 28
11  },
12  "result": {
13    "data": {},
14    "id": "6413",
15    "state": "init",
16    "bizType": "WITHDRAW",
17    "type": "BTC",
18    "coinType": "BTC",
19    "to": "mfvLYmxGYgwL5NMBH7pHtBA9QzjpbapNNb",
20    "value": "0.08",
21    "confirmations": 0,
22    "create_at": 1548316656499,
23    "update_at": 1548316656500,
24    "from": "myKRmYjEzPUtsqSUzy6yMEmpMT491Rj6Va",
25    "fee": "0",
26    "hash": "",
27    "extraData": "",
28    "memo": "",
29    "sendAgain": false,
30    "namespace": "BTC",
31    "sid": "fXvlt-ZX9vLn3jAmAAAC"
32  }
33 }
```

查询订单

说明

通过订单 ID 查询可以获得包括交易哈希、交易使用矿工费和订单当前状态等信息。

示意图

```
GET http://localhost:7001/api/v1/transactions/6413

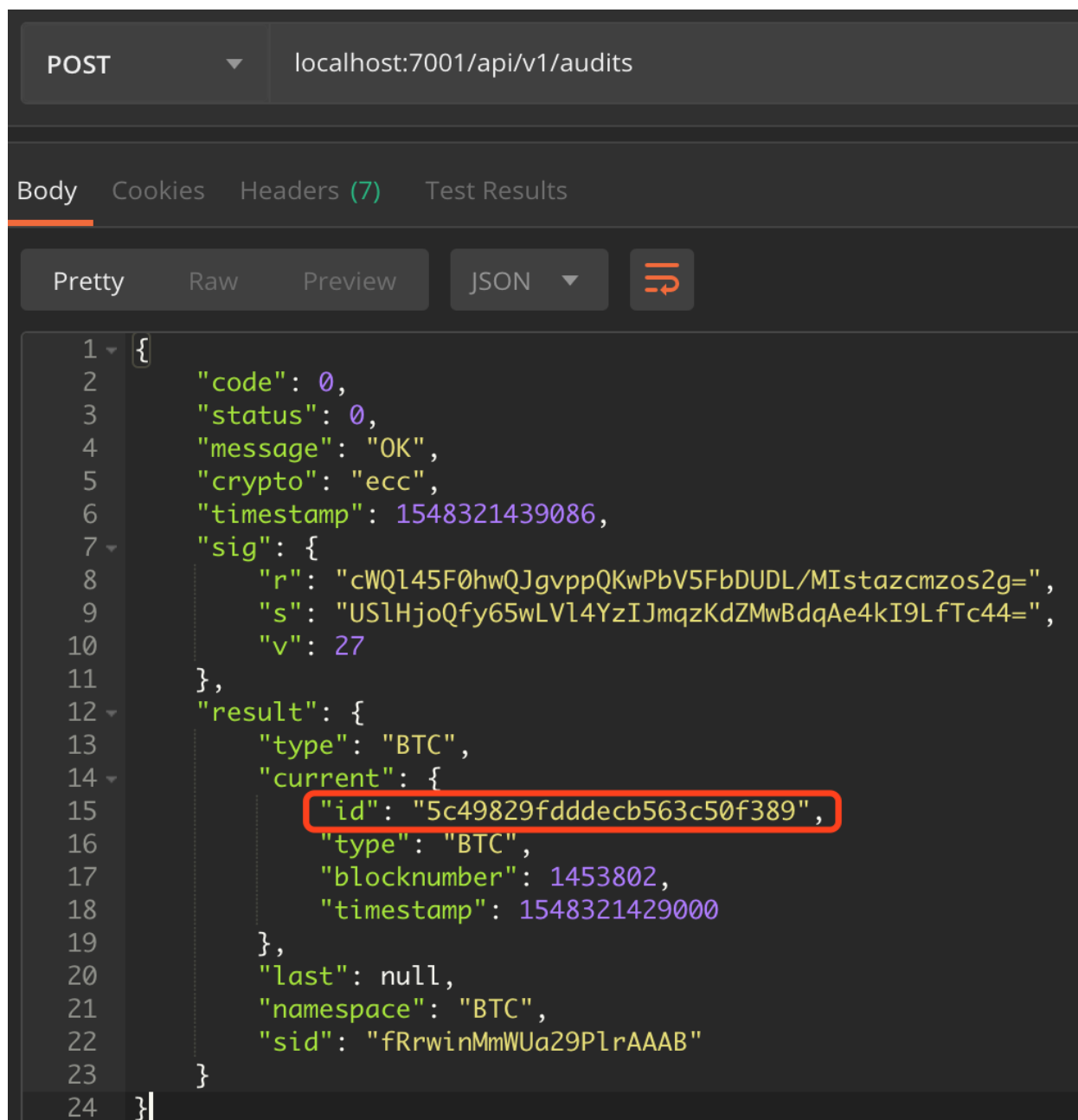
{
  "result": {
    "id": "6413",
    "state": "pending",
    "bizType": "WITHDRAW",
    "type": "BTC",
    "coinType": "BTC",
    "to": "mfvLYmxGYgwL5NMBH7pHtBA9QzjpbapNNb",
    "value": "0.08",
    "confirmations": 1,
    "create_at": 1548316656499,
    "update_at": 1548316679810,
    "from": "mjcnK7YHCF3tUYwDgNAt6cuD4VHLsGx6v1",
    "fee": "0.00109375",
    "data": {
      "timestampBegin": 1548316657778,
      "timestampFinish": 0,
      "timestampHandle": 1548316657572,
      "type": "Bitcoin",
      "hash": "4427227cb68165f190342f857ba1a1871654d170e732aa731fbd184990be058a",
      "fee": 0.00109375,
      "blockNumber": 1453798,
      "blockHash": "00000000000000a99537182e1d22369cbadf39d82901d2baf18f74f204aaf1e7",
      "confirmations": 1,
      "from": [
        {
          "address": "mjcnK7YHCF3tUYwDgNAt6cuD4VHLsGx6v1",
          "value": "0.1",
          "txid": "1871c7dc9a1c62511c53f4aafcc7fa8cd1eddb1ed40d531fcf03a74378ac5059",
          "n": 0
        }
      ],
      "to": [
        {
          "address": "mfvLYmxGYgwL5NMBH7pHtBA9QzjpbapNNb",
          "value": "0.08000000",
          "txid": "",
          "n": 0
        },
        {
          "address": "myKRmYjEzPUtsqSUzy6yMEmpMT491Rj6Va",
          "value": "0.01890625",
          "txid": "",
          "n": 1
        }
      ],
      "state": "pending"
    },
    "hash": "4427227cb68165f190342f857ba1a1871654d170e732aa731fbd184990be058a"
  }
}
```


发起审计

说明

API 传入的时间戳被用来找到数据库中产生时间最近的区块并对上次审计和这次审计的区块之间的所有订单进行审计。如果第一次审计则是对数据库中所有订单进行审计。请注意，审计只针对已经达到最终状态的订单，并且 API 传入的时间戳不能早于数据库中存储的最小区块的产生时间，也不能晚于当前时间。

示意图



```
POST localhost:7001/api/v1/audits

Body Cookies Headers (7) Test Results

Pretty Raw Preview JSON

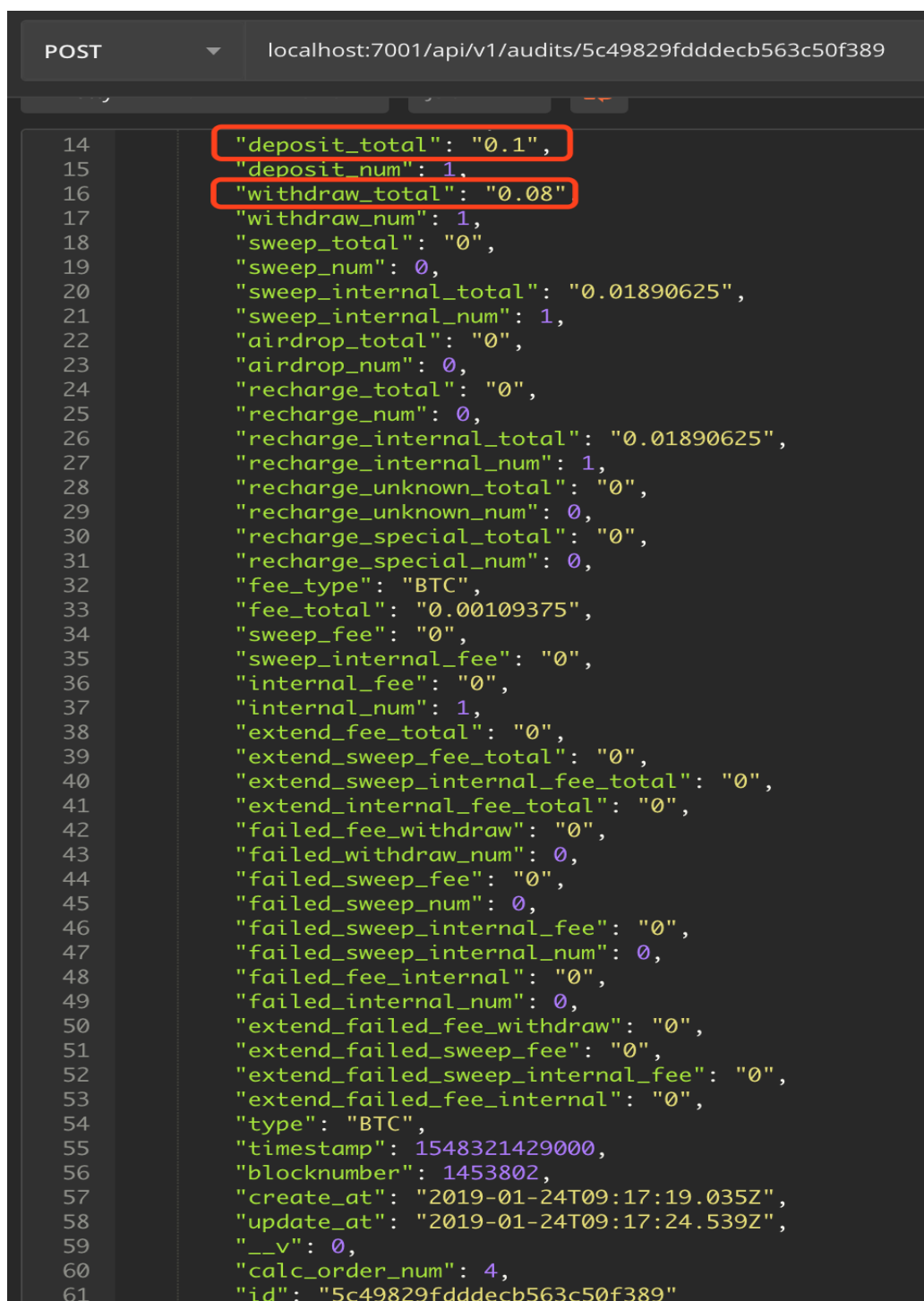
1 {
2   "code": 0,
3   "status": 0,
4   "message": "OK",
5   "crypto": "ecc",
6   "timestamp": 1548321439086,
7   "sig": {
8     "r": "cWQl45F0hwQJgvppQKwPbV5FbDUDL/MIstazcmzos2g=",
9     "s": "USlHjoQfy65wLVl4YzIJmqzKdZMwBdqAe4kI9LfTc44=",
10    "v": 27
11  },
12  "result": {
13    "type": "BTC",
14    "current": {
15      "id": "5c49829fdddec563c50f389",
16      "type": "BTC",
17      "blocknumber": 1453802,
18      "timestamp": 1548321429000
19    },
20    "last": null,
21    "namespace": "BTC",
22    "sid": "fRrwinMmWUa29PlrAAAB"
23  }
24 }
```

查询审计结果

说明

通过上述步骤得到的审计 ID 可以查询审计计算结果，包括总充值/提现金额、总内耗等。

示意图



```
POST localhost:7001/api/v1/audits/5c49829fdddec563c50f389

{
  "deposit_total": "0.1",
  "deposit_num": 1,
  "withdraw_total": "0.08",
  "withdraw_num": 1,
  "sweep_total": "0",
  "sweep_num": 0,
  "sweep_internal_total": "0.01890625",
  "sweep_internal_num": 1,
  "airdrop_total": "0",
  "airdrop_num": 0,
  "recharge_total": "0",
  "recharge_num": 0,
  "recharge_internal_total": "0.01890625",
  "recharge_internal_num": 1,
  "recharge_unknown_total": "0",
  "recharge_unknown_num": 0,
  "recharge_special_total": "0",
  "recharge_special_num": 0,
  "fee_type": "BTC",
  "fee_total": "0.00109375",
  "sweep_fee": "0",
  "sweep_internal_fee": "0",
  "internal_fee": "0",
  "internal_num": 1,
  "extend_fee_total": "0",
  "extend_sweep_fee_total": "0",
  "extend_sweep_internal_fee_total": "0",
  "extend_internal_fee_total": "0",
  "failed_fee_withdraw": "0",
  "failed_withdraw_num": 0,
  "failed_sweep_fee": "0",
  "failed_sweep_num": 0,
  "failed_sweep_internal_fee": "0",
  "failed_sweep_internal_num": 0,
  "failed_fee_internal": "0",
  "failed_internal_num": 0,
  "extend_failed_fee_withdraw": "0",
  "extend_failed_sweep_fee": "0",
  "extend_failed_sweep_internal_fee": "0",
  "extend_failed_fee_internal": "0",
  "type": "BTC",
  "timestamp": 1548321429000,
  "blocknumber": 1453802,
  "create_at": "2019-01-24T09:17:19.035Z",
  "update_at": "2019-01-24T09:17:24.539Z",
  "__v": 0,
  "calc_order_num": 4,
  "id": "5c49829fdddec563c50f389"
}
```