rpc接口文档

Contents:

基础接口相关。

显示版本号以及客户端的相关信息

Request:

```
{
    "jsonrpc": 2.0,
    "params": [],
    "id": "1",
    "method": "about"
}
```

Response Result:

```
"id": "2",
    "result": {
        "fc_revision_age": "46 years ago",
        "blockchain_name": "GOPs",
        "gop_revision_age": "64 weeks ago",
        "boost_version": "1.55",
        "openssl_version": "OpenSSL 1.0.1g 7 Apr 2014",
        "compile_date": "compiled on Mar 28 2016 at 11:50:01",
        "build": "win32 64-bit",
        "gop_revision": "1.2",
        "fc_revision": "0",
        "client_version": "",
        "blockchain_description": "The Future of Banking"
}
```

rpc访问钱包登录函数

调用前提:1在goopal平台数据目录下的config.json下配置好相关的rpc服务器参数 2.启动 goopal 平台

```
{
    "id": "1",
    "result": true
}
```

获取当前链以及钱包基础信息

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "2",
    "method": "get_info"
}
```

```
{
    "id": "2",
    "result": {
        "blockchain_head_block_timestamp": "2016-03-28T07:43:00",
        "blockchain average delegate participation": "1.46017699115044250",
        "wallet_unlocked": true,
        "wallet_next_block_production_time": null,
        "blockchain_share_supply": "10000578600000",
        "network num connections": "0",
        "blockchain_next_round_timestamp": "2016-03-29T02:25:40",
        "ntp_time_error": "-0.10100400000000000",
        "blockchain_random_seed": "fca3b1dd8ad99aee1451fcb8426185af01769942",
        "blockchain_next_round_time": "550",
        "wallet_block_production_enabled": false,
        "network_num_connections_max": "200",
        "wallet_last_scanned_block_timestamp": "2016-03-28T07:43:00",
        "wallet_next_block_production_timestamp": null,
        "wallet_unlocked_until_timestamp": "1911-10-30T20:53:40",
        "wallet_open": true,
        "blockchain_head_block_num": "5786",
        "blockchain_confirmation_requirement": "1",
        "network_chain_downloader_blocks_remaining": null,
        "network_chain_downloader_running": false,
        "client_data_dir": "e:/goptest/3",
        "blockchain_head_block_age": "66810",
        "blockchain_blocks_left_in_round": "55",
        "wallet_unlocked_until": "999997526",
        "ntp_time": "2016-03-29T02:16:30",
        "wallet_scan_progress": "1.00000000000000000",
        "client_version": "",
        "blockchain_head_block_id": "a8b1ce125f3cbb4e3454a532ca9360bbe9f9dfa4"
    }
}
```

判断输入的公钥是否合法

调用前提:无

Request:

```
{
    "id": "2",
    "result": {
        "isvalid": true
    }
}
```

临时设置rpc的登录用户名

调用前提:需要使用rpc_start_server指令让这条指令生效

Request:

Response Result:

```
{
    "id": "2",
    "result": "null"
}
```

临时设置rpc登录用户密码

调用前提:需要使用rpc_start_server指令让这条指令生效

```
{
    "id": "3",
    "result": "null"
}
```

临时启动客户端rpc模式

调用前提:需要断开这次rpc的链接,重新进行rpc链接才能看出API执行效果

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "port"
],
    "id": "2",
    "method": "rpc_start_server"
}
```

Response Result:

```
{
    "id": "4",
    "result": "null"
}
```

更新NTP时间

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "2",
    "method": "ntp_update_time"
}
```

```
{
    "id": "5",
    "result": "null"
}
```

显示当前数据占用的硬盘空间

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "2",
    "method": "disk_usage"
}
```

Response Result:

```
{
    "id": "2",
    "result": {
       "logs": "4085001",
        "mail_client": null,
        "blockchain": "3482597",
        "wallets": {
           ".backups": "3237",
           "op": "402051"
        },
        "network peers": "289497",
        "dac_state": "7642885",
        "mail_server": null,
       "total": "16171905"
    }
}
```

获取指定区块的全部详细交易信息

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [
        "block"
],
    "id": "2",
    "method": "blockchain_get_block_transactions"
}
```

```
{
    "id": "2",
    "result": [
        [
            "7e8b7797d42d1ed8f8b1beb3e92f77ae6842c6a3",
            {
                "withdraws": [
                    [
                         "0",
                         "10000001000"
                    ]
                ],
                "imessage_length": "0",
                "deltas": [
                    [
                         "0",
                         [
                             [
                                 "0",
                                 "-10000001000"
                         ]
                    ],
                    "1",
                         [
                                 "0",
                                 "10000000000"
                             ]
                         ]
                    ]
                ],
                "required_fees": {
                    "asset_id": "0",
                    "amount": "0"
                },
                "alt_fees_paid": {
                    "asset_id": "0",
                    "amount": "0"
                },
                "deposits": [
                    [
                         "0",
                         "10000000000"
                    ]
                ],
                "yield": [],
                "trx": {
                    "gop_inport_asset": {
                         "asset_id": "0",
                         "amount": "10000000000"
                    },
                    "operations": [
                         {
                             "type": "withdraw_op_type",
                             "data": {
                                 "claim_input_data": "",
                                 "amount": "1000001000",
```

```
"balance_id": "GOPQJ2gaD8RiKpiWRcT3AAEj4vr5eAJpXj52"
                          }
                      },
                          "type": "deposit_op_type",
                          "data": {
                              "amount": "10000000000",
                              "condition": {
                                 "asset_id": "0",
                                 "slate_id": "0",
                                 "type": "withdraw_signature_type",
                                 "data": {
                                     "owner": "GOP6b7RN33FnT5MHPNwXqwWZBFZ17ArA3wm3"
                              }
                          }
                      }
                  ],
                   "signatures": [
"2004f4f30c748da49ddf94468fcfbff02c72f9ac5784d56b9db5efc1d5470182034a8eb3866f42ca84013b218193bf4f
                  ],
                  "expiration": "2016-03-28T08:00:48",
                  "gop_account":
"signed_keys": [],
               "chain_location": {
                  "trx_num": "0",
                  "block_num": "5533"
               },
               "delegate_vote_deltas": [],
               "balance": [
                  "0<mark>"</mark>,
                      "1000"
                  ]
               ]
           }
       ]
   ]
}
```

获取指定帐号名称或ID 的账号详细信息

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [
        "account"
],
    "id": "2",
    "method": "blockchain_get_account"
}
```

```
{
    "id": "2",
    "result": {
        "owner_key": "GOP8KkneVfc6iaR9grBpRij5wqhPK5XwxS7ohNhJ5tH8DEoL77j32",
        "name": "gop1",
        "registration_date": "2015-05-31T16:00:00",
        "last_update": "2015-05-31T16:00:00",
        "delegate_info": {
            "pay_balance": "20090309",
            "total_burned": "0",
            "blocks_missed": "810",
            "pay_rate": "100",
            "votes_for": "20090309",
            "blocks_produced": "58",
            "last_block_num_produced": "5782",
            "total_paid": "20090309",
            "signing_key_history": [
                [
                    "GOP8KkneVfc6iaR9grBpRij5wqhPK5XwxS7ohNhJ5tH8DEoL77j32"
                ]
            "next_secret_hash": "7e7f255f175ffaf52397084f6ca747674088f176"
        },
        "public_data": null,
        "id": "2",
        "active_key_history": [
            [
                "2015-05-31T16:00:00",
                "GOP8KkneVfc6iaR9grBpRij5wqhPK5XwxS7ohNhJ5tH8DEoL77j32"
            ]
        ]
    }
}
```

查询blockchain的信息和设定参数

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "1",
    "method": "blockchain_get_info"
}
```

```
{
    "id": "1",
    "result": {
        "db_version": "201",
        "symbol_size_min": "3",
        "block interval": "10",
        "max_delegate_pay_issued_per_block": "507977",
        "memo_size_max": "51",
        "symbol_size_max": "8",
        "statistics_enabled": false,
        "max_pending_queue_size": "1000",
        "genesis_timestamp": "2015-05-31T16:00:00",
        "delegate_num": "99",
        "name_size_max": "63",
        "symbol": "GOP",
        "short_symbol_asset_reg_fee": "50000000000",
        "data_size_max": "65536",
        "address_prefix": "GOP",
        "max_trx_per_second": "100",
        "asset_shares_max": "1000000000000000",
        "long_symbol_asset_reg_fee": "50000000",
        "blockchain_id": "94beaf23764844cae3e1f368273d0dddc8bc06c575c0cf6578bcb1f2012e7694",
        "name": "GOPs",
        "max_delegate_reg_fee": "122181818",
        "relay_fee": "1000"
    }
}
```

返回当前基础资产分配的快照

调用前提:无

```
"jsonrpc": "2.0",
    "params": [
        "filename"
],
    "id": "2",
    "method": "blockchain_generate_snapshot"
}
```

```
{
    "id": "2",
    "result": null
}
```

传回是否本地区块链已经和网络同步的信息

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "2",
    "method": "blockchain_is_synced"
}
```

Response Result:

```
{
    "id": "2",
    "result": true
}
```

查询当前总共有多少块

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "2",
    "method": "blockchain_get_block_count"
}
```

```
{
    "id": "2",
    "result": "5534"
}
```

获取指定的balance_id下的余额记录

调用前提:balanceid可从转账的时候从生成的交易单的withdraw_op_type中查看

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "balance_id"
],
    "id": "2",
    "method": "blockchain_get_balance"
}
```

```
{
    "id": "2",
    "result": {
        "deposit_date": "2016-06-20T05:32:35",
        "snapshot_info": {
            "original_address": "GOPL34D5qcbMU56mRRByLFVvDVVEvZe9sVn6",
            "original_balance": "1000000000000"
        },
        "last_update": "2016-06-20T06:21:30",
        "meta_data": "null",
        "balance": "196009",
        "condition": {
            "asset_id": "0",
            "slate_id": "0",
            "type": "withdraw_signature_type",
            "data": {
                "owner": "GOPL34D5qcbMU56mRRByLFVvDVVEvZe9sVn6"
            }
        }
    }
}
```

列出被指定公钥拥有的balance

调用前提:无

Request:

```
{
    "id": "2",
    "result": [
        [
            "GOPNXWy8jSAkuWRoxLDKU7JL7CT6k7kP7Afc",
            {
                "deposit_date": "1970-01-01T00:04:50",
                "snapshot_info": {
                    "original_address": "GOP5iSiYMm1fkUtTcW7dQSVNDFZEGXNgj4fy",
                    "original_balance": "1000000000000"
                },
                "last_update": "2016-03-28T06:58:50",
                "meta_data": null,
                "balance": "10000002000000",
                "condition": {
                    "asset_id": "0",
                    "slate_id": "0",
                    "type": "withdraw_signature_type",
                    "data": {
                        "owner": "GOP5iSiYMm1fkUtTcW7dQSVNDFZEGXNgj4fy"
                }
            }
        ]
    ]
}
```

以签署区块的顺序传回目前回合的现任受托人信息

调用前提:内容较多,可能用普通工具没有办法接收全部返回。

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "start_num",
        "limit_num"
    ],
    "id": "2",
    "method": "blockchain_list_active_delegates"
}
```

```
{
    "id": "2",
    "result": [
        {
            "owner key": "GOP8XfYBVvdxrSFbW2Ehtzhf1vAQNq21nTiMpyE6QGvoydtY2aXcZ",
            "name": "gop42",
            "registration_date": "2015-05-31T16:00:00",
            "last_update": "2015-05-31T16:00:00",
            "delegate info": {
                "pay_balance": "19586615",
                "total_burned": "0",
                "blocks_missed": "809",
                "pay_rate": "100",
                "votes_for": "19586615",
                "blocks_produced": "57",
                "last_block_num_produced": "5737",
                "total_paid": "19586615",
                "signing_key_history": [
                    [
                        "GOP8XfYBVvdxrSFbW2Ehtzhf1vAQNq21nTiMpyE6QGvoydtY2aXcZ"
                    ]
                ],
                "next_secret_hash": "7bf4dcb7b7e7887053638b5ac9d637930a91a535"
            },
            "public_data": null,
            "id": "43",
            "active_key_history": [
                "2015-05-31T16:00:00",
                    "GOP8XfYBVvdxrSFbW2Ehtzhf1vAQNq21nTiMpyE6QGvoydtY2aXcZ"
                ]
            ]
        }
    ]
}
```

传回已注册的帐号名称, 从指定的帐号名称开始, 直到所提供的数量上限结束

调用前提:无

```
{
    "id": "2",
    "result": [
        {
            "owner_key": "GOP6vBWNEsnNS5rMXSHsXLDxp3mMyBZd5M9gAgtMbvLevHQVrCgYY",
            "name": "gop0",
            "registration_date": "2015-05-31T16:00:00",
            "last update": "2015-05-31T16:00:00",
            "delegate_info": {
                "pay_balance": "20288476",
                "total_burned": "0",
                "blocks_missed": "804",
                "pay_rate": "100",
                "votes_for": "20288476",
                "blocks_produced": "64",
                "last_block_num_produced": "5645",
                "total_paid": "20288476",
                "signing_key_history": [
                    "0",
                        "GOP6vBWNEsnNS5rMXSHsXLDxp3mMyBZd5M9gAgtMbvLevHQVrCgYY"
                    ]
                ],
                "next_secret_hash": "4e549122f53e486cd2f5741965bcb030f6c714bc"
            },
            "public_data": null,
            "id": "1",
            "active_key_history": [
                "2015-05-31T16:00:00",
                    "GOP6vBWNEsnNS5rMXSHsXLDxp3mMyBZd5M9gAgtMbvLevHQVrCgYY"
                ]
            ]
        }
    ]
}
```

传回尚未收录进区块的交易列表信息发送消息

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "2",
    "method": "blockchain_list_pending_transactions"
}
```

```
{
   "id": "2",
   "result": [
       {
           "gop_inport_asset": {
              "asset_id": "0",
              "amount": "100000"
           "operations": [
              {
                  "type": "withdraw_op_type",
                  "data": {
                      "claim_input_data": "",
                      "amount": "101000",
                      "balance_id": "GOP5wSdtt5BF3oDXAYXoRJdWnw6Dzr8pc9vC"
                  }
              },
                  "type": "deposit_op_type",
                  "data": {
                      "amount": "100000",
                      "condition": {
                         "asset_id": "0",
                         "slate_id": "0",
                         "type": "withdraw_signature_type",
                         "data": {
                             "owner": "GOP5iSiYMm1fkUtTcW7dQSVNDFZEGXNgj4fy"
                         }
                      }
                  }
              }
           ],
           "signatures": [
"205c194f49a821cc7f9884356c89117332c3867967f09d22f0920a2deccf0a64a84c5252b0dde7972dfc905d407a3c8a
           ],
           "expiration": "2016-03-28T08:43:34",
           "gop_account":
}
   ]
}
```

获取一笔区块链上转帐的详细信息交易

调用前提:无

```
{
    "id": "2",
    "result": [
        "66294adf274750ba2cd312b13aa81cc0bee71ba6",
            "withdraws": [
                "0",
                    "100000001000"
            ],
            "imessage_length": "0",
            "deltas": [
                [
                    "0",
                    "0",
                             "-100000001000"
                        ]
                    ]
                ],
                [
                    "1",
                    "0",
                             "1000000000000"
                    ]
                ]
            ],
            "required_fees": {
                "asset_id": "0",
                "amount": "0"
            },
            "alt_fees_paid": {
                "asset_id": "0",
                "amount": "0"
            },
            "deposits": [
                "0",
                    "1000000000000"
                ]
            ],
            "yield": [],
            "trx": {
                "gop_inport_asset": {
                    "asset_id": "0",
                    "amount": "0"
                },
                "operations": [
                    {
                        "type": "withdraw_op_type",
                        "data": {
                             "claim_input_data": "",
                             "amount": "10000001000",
                             "balance_id": "GOPMPUsyR4Qiomu2r6GvGNFyNxoZQB7oJXfr"
```

```
}
                    },
                         "type": "deposit_op_type",
                         "data": {
                             "amount": "100000000000",
                             "condition": {
                                 "asset id": "0",
                                 "slate_id": "0",
                                 "type": "withdraw_signature_type",
                                 "data": {
                                     "owner": "GOPGb4Dbh82jY8Q5JrvNmCcsjgdZcawCD5Ex"
                             }
                        }
                    }
                ],
                "signatures": [
"1f109eaf6f4e95914b6a51bb5c8cbf67992ed3b9d575da7a34ed1f63aa1b0eeea7571ce2cebf18c253d1e4208de1f30f
                ],
                "expiration": "2016-03-22T08:11:00",
                "gop account": ""
            },
            "signed_keys": [],
            "chain_location": {
                "trx_num": "0",
                "block_num": "1277"
            },
            "delegate_vote_deltas": [],
            "balance": [
                [
                    "0",
                    "1000"
            ]
        }
    ]
}
```

查询指定范围代理的详细信息

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [
        "first",
        "count"
],
    "id": "26",
    "method": "blockchain_list_delegates"
}
```

```
{
    "id": "17",
    "result": [
            "owner_key": "GOP7zcWtxPx252gZhjYmj5nyKKZ6agzkVVc8E4HKBVDiiswZ2syS3",
            "name": "gop4",
            "last_update": "2015-05-31T16:00:00",
            "delegate_info": {
                "pay_balance": "557579636",
                "total_burned": "0",
                "blocks_missed": "4865",
                "pay_rate": "100",
                "votes_for": "1030973384311",
                "blocks_produced": "5195",
                "last_block_num_produced": "494448",
                "total_paid": "587328636",
                "signing_key_history": [
                    [
                        "0",
                        "GOP7zcWtxPx252gZhjYmj5nyKKZ6agzkVVc8E4HKBVDiiswZ2syS3"
                    ]
                ],
                "next secret hash": "feab43c718df5bb693b3a54b855ecd7bd834c4a7"
            },
            "public_data": "null",
            "registation_date": "2015-05-31T16:00:00",
            "id": "5",
            "active_key_history": [
                    "2015-05-31T16:00:00",
                    "GOP7zcWtxPx252gZhjYmj5nyKKZ6agzkVVc8E4HKBVDiiswZ2syS3"
            ]
        }
    ]
}
```

返回指定范围区块的详细信息

调用前提:无

Request:

```
{
    "latency": "0",
    "user_transaction_ids": [
       "f7f984386f2cee6cb806e06ab1a5e955c04273a3",
       "f7f8b372d625c99267b5e7e04c42ac004885b102",
       "f7f0d80434c1f7618a084c5423e29bbd2ce49a1e",
        "f7ee970b029dde86ca053ce0976e3bc6112a0c78",
        "f7eac3727f9c4c0d49ee9d8116cfe0e7f5092254",
       "f7eab200cdee190c92a794253318ae533ca901d0".
       "f7e547f8bce59018a8fe504fae182548d560770b",
       "f7e03864045770f8a2eca96b2680a5cd7953a0b4",
       "f7db395033d208ba338391edb9f027c9a396dd48",
        "f7db2bbe686d4eb8682ad828a8f0e7e060e3b523",
       "f7dad29228c81987496edc3b3413cfc825b409e4",
        "f7c6af7fe6f9422b137af95cbf869dff89027cce",
       "f0b3bffd483f2a243502f83b143e1baa90833013",
       "cb896307d7cc7651a3e1f3853b65d254b2958b20",
        "975f8398135d3b90c9662a516d323a2e06b82fd1",
       "876de39d1f96f493788fa946d95a86c330d40669",
        "86ce132074b4735cfa7fdc89b3440527818c7b27",
       "6c56aa35222d8fb891ab0a073a80a14ffaf6360f",
       "6049c81451031be300a9eb5b928f3b9369955cec",
        "534c39ed29294e00e73262b56311cc7f715817a0",
       "48f1ef67e7806cb5d8550cc7bc94fdd9d871ba00",
        "3852885967c249ea3f52b25a71e7b62e3093ffe9".
       "127b092d5df103a3bb5a185d48269befabcb5108",
       "01628269891f5293672b038a3e9f681211650490"
    ],
    "delegate_signature":
"206631beee6020ee31c99c93e16171db60560263acbaa38d81c2cef2a79989d4ea53a019ba35f213a81eb66f07b250c9
    "signee_fees_collected": "0",
    "processing_time": "0",
    "timestamp": "2016-03-11T08:32:20",
    "signee_shares_issued": "0",
    "block_num": "1020",
    "previous_secret": "f0f100f90dc73c2ef9d0bd398e9513d65b2f51a7",
    "next_secret_hash": "b37d87e09b6d112c220a9651db24edd475c9f465",
    "signee_fees_destroyed": "0",
    "transaction digest": "bdaae5cf29f597a1ec84435377e7e30f351c44abd553f4394dc7febf6b7139ce",
    "block_size": "3886",
    "id": "699a6bd96d6df589a63bc61621ad3a82a8016081",
    "previous": "87f4ffd55d673ebb99d9d377afb957ccb35cb0ac"
}
```

查询指定区块的签名代理是谁

调用前提:无

```
"jsonrpc": "2.0",
    "params": [
        "block"
],
    "id": "26",
    "method": "blockchain_get_block_signee"
}
```

```
{
    "id": "26",
    "result": "gop4"
}
```

添加或者删除一个节点的连接

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
         "node",
         "command"
],
    "id": "1",
    "method": "network_add_node"
}
```

Response Result:

```
{
    "id": "1",
    "result": "null"
}
```

获取节点当前连接数

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "1",
    "method": "network_get_connection_count"
}
```

```
{
    "id": "1",
    "result": "1"
}
```

传回每一个已经连接的节点信息

调用前提:返回的是一组数据

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "hide_firewalled_nodes"
],
    "id": "1",
    "method": "network_get_peer_info"
}
```

```
{
    "id": "2",
    "result": [
        {
            "lastsend": "1466573207",
            "goopal_git_revision_sha": "1.2 (same as ours)",
            "conntime": "2016-06-22T05:22:33",
            "addrlocal": "10.23.3.161:60555",
            "goopal_git_revision_age": "1 years6 months ago (same as ours)",
            "fc_git_revision_age": "46 years ago (same as ours)",
            "current_head_block_number": "689",
            "fc_git_revision_sha": "0 (same as ours)",
            "pingwait": "",
            "current_head_block": "1dea351ba0d6fc22958ebc1e45ba9c68c7e20333",
            "addr": "119.254.161.28:60555",
            "goopal_git_revision_unix_timestamp": "2015-01-08T18:02:32",
            "lastrecv": "1466573207",
            "platform": "win32",
            "firewall_status": "firewalled",
            "pingtime": "",
            "bytesrecv": "7696",
            "bytessent": "2288",
            "startingheight": "",
            "inbound": false,
            "version": "",
            "current_head_block_time": "2016-06-22T05:26:50",
            "services": "00000001",
            "subver": "goopal_client",
            "syncnode": "",
            "fc_git_revision_unix_timestamp": "1970-01-01T00:00:00",
            "banscore": ""
        }
    ]
}
```

获取当前网络信息

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "26",
    "method": "network_get_info"
}
```

```
{
    "id": "26",
    "result": {
        "listening_on": "0.0.0.0:60696",
        "node_public_key":

"03dafc378c8a22d136b338a3913bb0acbe551f970d0af1d0955861a7103eb17252",
        "node_id": "6819fe268e09df3ce4a90ab543fb98cc42390a986e5f5037921e911b437b06b23b",
        "firewalled": "firewalled"
    }
}
```

获取潜在连接点列表

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "26",
    "method": "network_list_potential_peers"
}
```

```
{
    "id": "26",
    "result": [
        {
            "endpoint": "59.108.127.182:60666",
            "last_connection_attempt_time": "2016-06-22T02:17:47",
            "last_error": {
                "message": "unspecified",
                "code": "0".
                "name": "exception",
                "stack": [
                    {
                        "data": {
                            "message": "????????????(Э??/????????)???????????
                        },
                        "context": {
                            "thread name": "asio",
                            "level": "error",
                            "timestamp": "2016-06-21T04:16:03",
                            "hostname": "",
                            "file": "asio.cpp",
                            "line": "60",
                            "method": "fc::asio::detail::error_handler"
                        "format": "${message} "
                    }
                ]
            },
            "number_of_failed_connection_attempts": "5",
            "last_seen_time": "2016-06-22T05:18:17",
            "last_connection_disposition": "last_connection_succeeded",
            "number_of_successful_connection_attempts": "10"
        },
            "endpoint": "119.254.161.28:60666",
            "last_connection_attempt_time": "2016-06-22T02:17:49",
            "last error": {
                "message": "unspecified",
                "code": "0",
                "name": "exception",
                "stack": [
                    {
                            "peer": "119.254.161.28:60666",
                            "status": "connecting",
                            "timeout": "10",
                            "sent": "0",
                            "received": "0"
                        },
                        "context": {
                            "thread_name": "p2p",
                            "level": "warn",
                            "timestamp": "2016-06-20T06:55:21",
                            "hostname": "",
                            "file": "Node.cpp",
                            "line": "1256",
                            "method":
"goopal::net::detail::NodeImpl::terminate_inactive_connections_loop"
                        },
```

查询UPNP基本信息

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "26",
    "method": "network_get_upnp_info"
}
```

Response Result:

```
{
    "id": "26",
    "result": {
        "external_ip": "0.0.0.0",
        "upnp_enabled": true,
        "mapped_port": "0"
    }
}
```

以指定名称创建钱包

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [
        "wallet_name",
        "password",
        ""

],
    "id": "3",
    "method": "wallet_create"
}
```

```
{
    "id": "1",
    "result": "null"
}
```

获取钱包信息

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "1",
    "method": "wallet_get_info"
}
```

```
{
    "id": "1",
    "result": {
        "scan_progress": "1.00000000000000000",
        "data_dir": "e:/goptest/3/wallets",
        "name": "op",
        "unlocked": true,
        "last_scanned_block_num": null,
        "open": true,
        "transaction_expiration_secs": "3600",
        "unlocked_until_timestamp": "2016-03-28T07:29:49",
        "automatic_backups": true,
        "version": "109",
        "transaction_scanning_enabled": false,
        "transaction_fee": {
            "asset_id": "0",
            "amount": "1000"
        },
        "num_scanning_threads": "4",
        "unlocked_until": "3598",
        "last_scanned_block_timestamp": null
   }
}
```

如果目前的钱包是打开的就关闭它

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "6",
    "method": "wallet_close"
}
```

Response Result:

```
{
    "id": "6",
    "result": "null"
}
```

打开指定名称的钱包

调用前提: 当前指定名称的钱包名称已经存在

Request:

Response Result:

```
{
    "id": "6",
    "result": "null"
}
```

解锁钱包内的私钥以启用支付操作

调用前提:钱包打开

Request:

Response Result:

```
{
    "id": "4",
    "result": "op"
}
```

将私钥导入本地钱包中,并传回其所导入的真实帐号

调用前提:钱包打开且钱包解锁

Request:

```
{
  "jsonrpc": "2.0",
  "params": [
        "wif_key_to_import",
        "account_name",
        "create_account",
        "wallet_rescan_blockchain"
],
  "id": "5",
  "method": "wallet_import_private_key"
}
```

Response Result:

```
{
    "id": "5",
    "result": "aa"
}
```

将当前的钱包数据导出为一个JSON 文件

调用前提:钱包打开

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "filename"
],
    "id": "7",
    "method": "wallet_backup_create"
}
```

```
{
    "id": "6",
    "result": "null"
}
```

调用前提:无

Request:

```
{
  "jsonrpc": "2.0",
  "params": [
      "filepath",
      "wallet_name",
      "password"
  ],
  "id": "8",
  "method": "wallet_backup_restore"
}
```

Response Result:

```
{
    "id": "8",
    "result": "null"
}
```

设置钱包是否开启自动备份功能并返回设置后的状态

调用前提:钱包打开,当你创建账户时候,自动备份如果开启,就会自动创建一个备份

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "enabled"
],
    "id": "9",
    "method": "wallet_set_automatic_backups"
}
```

```
{
    "id": "9",
    "result": false
}
```

设置交易过期时间并返回设置后的过期时间

调用前提:钱包打开

Request:

Response Result:

```
{
    "id": "10",
    "result": "3600"
}
```

列出指定帐号的交易历史

调用前提:钱包打开

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "account_name",
        "asset_symbol",
        "limit",
        "start_block_num",
        "end_block_num"
],
    "id": "11",
    "method": "wallet_account_transaction_history"
}
```

```
{
    "id": "26",
    "result": [
        {
            "is_market": false,
            "fee": {
                "asset_id": "0",
                "amount": "1000"
            },
            "is_confirmed": true,
            "is_market_cancel": false,
            "timestamp": "2016-06-21T03:20:20",
            "is_virtual": false,
            "block_num": "462950",
            "ledger_entries": [
                {
                    "from_account": "gop6",
                    "amount": {
                         "asset_id": "0",
                         "amount": "10000000000"
                    },
                    "running_balances": [
                             "sy234",
                             [
                                     "0",
                                     {
                                         "asset_id": "0",
                                         "amount": "10000000000"
                                     }
                                 ]
                             ]
                         ]
                    ],
                    "memo": "",
                    "to_account": "sy234"
            ],
            "trx_id": "78d148258f0488e12c7ad59d02a5700cd7cf194a",
            "expiration_timestamp": "2016-06-21T04:20:06"
        }
    ]
}
```

根据出入账查询交易记录

调用前提:钱包打开

```
{
    "jsonrpc": "2.0",
    "params": [
        "account_name",
        "asset_symbol",
        "limit",
        "transaction_type"
],
    "id": "26",
    "method": "wallet_transaction_history_splite"
}
```

```
{
    "id": "26",
    "result": [
        {
            "is_market": false,
            "fee": {
                "asset_id": "0",
                "amount": "1000"
            },
            "is_confirmed": true,
            "is_market_cancel": false,
            "timestamp": "2016-06-21T03:20:20",
            "is_virtual": false,
            "block_num": "462950",
            "ledger_entries": [
                {
                    "from_account": "gop6",
                    "amount": {
                         "asset_id": "0",
                         "amount": "10000000000"
                    },
                     "running_balances": [
                             "sy234",
                             [
                                     "0",
                                         "asset_id": "0",
                                         "amount": "10000000000"
                                 ]
                             ]
                         ]
                    ],
                    "memo": "",
                    "to_account": "sy234"
            ],
            "trx_id": "78d148258f0488e12c7ad59d02a5700cd7cf194a",
            "expiration_timestamp": "2016-06-21T04:20:06"
        }
    ]
}
```

获取当前pending区所有错误记录

调用前提:钱包打开

```
"jsonrpc": "2.0",
    "params": [
         "filepath"
],
    "id": "26",
    "method": "wallet_get_pending_transaction_errors"
}
```

```
{
    "id": "26",
    "result": [
        [
            "d128986f41ada51d4937171047acc33781c8f321",
            {
                "message": "expired transaction",
                "code": "31010",
                "name": "expired transaction",
                "stack": [
                    {
                         "data": {
                            "_current_state->now()": "2016-06-23T09:07:50",
                            "trx_arg": {
                                 "gop_inport_asset": {
                                     "asset_id": "0",
                                     "amount": "0"
                                 },
                                 "operations": [
                                     {
                                         "type": "withdraw op type",
                                         "data": {
                                             "claim_input_data": "",
                                             "amount": "101000",
                                             "balance id":
"GOP5Bf23THE4RoWzQqWAKn7PkmzJdgUWHDJV"
                                         }
                                     },
                                         "type": "deposit_op_type",
                                         "data": {
                                             "amount": "100000",
                                             "condition": {
                                                 "asset_id": "0",
                                                 "slate_id": "0",
                                                 "type": "withdraw_signature_type",
                                                 "data": {
                                                     "owner":
"GOPM3rr9yc2MB5GQRdBVY2Q5baF1FRBU8gG6"
                                                 }
                                             }
                                         }
                                     }
                                 "signatures": [
"2044d58b6e469f0f075a2faade9d806477aaa134f749a1b9bce25e3455ab8b9f6015bcaa40cf74276fdcf084c6c76dc7
                                 "expiration": "2016-06-23T09:03:43",
                                 "gop_account": ""
                            },
                            "expired_by_sec": "247"
                        },
                        "context": {
                            "thread name": "th a",
                            "level": "error",
                            "timestamp": "2016-06-23T09:07:51",
                            "hostname": "",
```

```
"file": "TransactionEvaluationState.cpp",
                            "line": "152",
                            "method":
"goopal::blockchain::TransactionEvaluationState::evaluate"
                        "format": ""
                    },
                    {
                        "data": {
                            "trx_arg": {
                                 "gop_inport_asset": {
                                     "asset_id": "0",
                                     "amount": "0"
                                },
                                 "operations": [
                                    {
                                         "type": "withdraw_op_type",
                                         "data": {
                                             "claim_input_data": "",
                                             "amount": "101000",
                                             "balance_id":
"GOP5Bf23THE4RoWzQqWAKn7PkmzJdgUWHDJV"
                                         }
                                     },
                                         "type": "deposit_op_type",
                                         "data": {
                                             "amount": "100000",
                                             "condition": {
                                                 "asset_id": "0",
                                                 "slate_id": "0",
                                                 "type": "withdraw_signature_type",
                                                 "data": {
                                                     "owner":
"GOPM3rr9yc2MB5GQRdBVY2Q5baF1FRBU8gG6"
                                                 }
                                             }
                                         }
                                     }
                                ],
                                 "signatures": [
"2044d58b6e469f0f075a2faade9d806477aaa134f749a1b9bce25e3455ab8b9f6015bcaa40cf74276fdcf084c6c76dc7
                                1,
                                 "expiration": "2016-06-23T09:03:43",
                                 "gop_account": ""
                            }
                        },
                        "context": {
                            "thread_name": "th_a",
                            "level": "warn",
                            "timestamp": "2016-06-23T09:07:51",
                            "hostname": "",
                            "file": "TransactionEvaluationState.cpp",
                            "line": "192",
                            "method":
"goopal::blockchain::TransactionEvaluationState::evaluate"
                        },
                        "format": ""
```

```
}
                ]
            }
        ],
        [
            "ecc6cfb278e2f10e0d77f122fa840f2160dedcc4",
            {
                "message": "expired transaction",
                "code": "31010",
                "name": "expired_transaction",
                "stack": [
                    {
                        "data": {
                            "_current_state->now()": "2016-06-23T09:07:50",
                            "trx_arg": {
                                 "gop_inport_asset": {
                                     "asset_id": "0",
                                     "amount": "0"
                                 },
                                 "operations": [
                                     {
                                         "type": "withdraw_op_type",
                                         "data": {
                                             "claim_input_data": "",
                                             "amount": "101000",
                                             "balance_id":
"GOP5Bf23THE4RoWzQqWAKn7PkmzJdgUWHDJV"
                                         }
                                     },
                                         "type": "deposit_op_type",
                                         "data": {
                                             "amount": "100000",
                                             "condition": {
                                                 "asset_id": "0",
                                                 "slate_id": "0",
                                                 "type": "withdraw_signature_type",
                                                 "data": {
                                                     "owner":
"GOPM3rr9vc2MB5GORdBVY2Q5baF1FRBU8gG6"
                                                 }
                                             }
                                         }
                                     }
                                 ],
                                 "signatures": [
"1f4892d2720a119b861560422ed5bab49875e8d8a4cdca3fe40ab51e54ec9449c712fc54c34bc90976e94146975601e8
                                 "expiration": "2016-06-23T09:03:34",
                                 "gop account": ""
                             "expired_by_sec": "256"
                        },
                        "context": {
                            "thread_name": "th_a",
                            "level": "error",
                            "timestamp": "2016-06-23T09:07:51",
                            "hostname": "",
```

```
"file": "TransactionEvaluationState.cpp",
                            "line": "152",
                            "method":
"goopal::blockchain::TransactionEvaluationState::evaluate"
                        "format": ""
                    },
                    {
                        "data": {
                            "trx_arg": {
                                 "gop_inport_asset": {
                                     "asset_id": "0",
                                     "amount": "0"
                                },
                                 "operations": [
                                    {
                                         "type": "withdraw_op_type",
                                         "data": {
                                             "claim_input_data": "",
                                             "amount": "101000",
                                             "balance_id":
"GOP5Bf23THE4RoWzQqWAKn7PkmzJdgUWHDJV"
                                         }
                                     },
                                         "type": "deposit_op_type",
                                         "data": {
                                             "amount": "100000",
                                             "condition": {
                                                 "asset_id": "0",
                                                 "slate_id": "0",
                                                 "type": "withdraw_signature_type",
                                                 "data": {
                                                     "owner":
"GOPM3rr9yc2MB5GQRdBVY2Q5baF1FRBU8gG6"
                                                 }
                                             }
                                         }
                                     }
                                ],
                                 "signatures": [
"1f4892d2720a119b861560422ed5bab49875e8d8a4cdca3fe40ab51e54ec9449c712fc54c34bc90976e94146975601e8
                                1,
                                 "expiration": "2016-06-23T09:03:34",
                                 "gop_account": ""
                            }
                        },
                        "context": {
                            "thread_name": "th_a",
                            "level": "warn",
                            "timestamp": "2016-06-23T09:07:51",
                            "hostname": "",
                            "file": "TransactionEvaluationState.cpp",
                            "line": "192",
                            "method":
"goopal::blockchain::TransactionEvaluationState::evaluate"
                        },
                        "format": ""
```

修改密码

调用前提:钱包解锁

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "old_passphrase",
        "passphrase"
],
    "id": "26",
    "method": "wallet_change_passphrase"
}
```

Response Result:

```
{
    "id": "26",
    "result": "null"
}
```

判断密码是否正确

调用前提:钱包解锁

```
{
    "jsonrpc": "2.0",
    "params": [
        "123456789"
    ],
    "id": "19",
    "method": "wallet_check_passphrase"
}
```

```
{
    "id": "19",
    "result": true
}
```

判断一个地址是否合法

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "GOP5iSiYMm1fkUtTcW7dQSVNDFZEGXNgj4fy"
],
    "id": "20",
    "method": "wallet_check_address"
}
```

Response Result:

```
{
    "id": "19",
    "result": true
}
```

创建一个账户

调用前提:钱包解锁

```
{
    "jsonrpc": "2.0",
    "params": [
        "test"
],
    "id": "22",
    "method": "wallet_account_create"
}
```

```
{
    "id": "22",
    "result": "GOPQJDzx3AzQWGhCBucE6zLj3mkFo6KG9qSw"
}
```

设置支持账户

调用前提:无

Request:

Response Result:

```
{
    "id": "3",
    "result": "1"
}
```

转账到某个地址

调用前提:钱包解锁,钱包内有账户

```
"jsonrpc": 2.0,
"params": [
        "amount_to_transfer",
        "asset_symbol",
        "from_account_name",
        "to_address",
        "memo_message",
        "strategy"
        ],
        "id": "1",
        "method": "wallet_transfer_to_address"
}
```

```
{
    "id": "26",
    "result": {
        "index": "0",
        "is_market": false,
        "fee": {
            "asset_id": "0",
            "amount": "1000"
        },
        "is_confirmed": false,
        "ledger_entries": [
            {
                "from_account": "GOP5eLFrZG5gvc5g5xqEU6J3GELp5WcQYoqhz4JBPT7BVgTpqqxbN",
                "amount": {
                    "asset_id": "0",
                    "amount": "100000"
                "memo": "aa"
            }
        ],
        "received time": "2016-06-01T08:32:20",
        "is_virtual": false,
        "block_num": "0",
        "trx": {
            "gop_inport_asset": {
                "asset_id": "0",
                "amount": "0"
            },
            "operations": [
                {
                    "type": "withdraw_op_type",
                    "data": {
                        "claim_input_data": "",
                        "amount": "101000",
                        "balance_id": "GOPJEk1wuT9Vix4vQRidmAafz5hCWrS48un2"
                    }
                },
                    "type": "deposit_op_type",
                    "data": {
                        "amount": "100000",
                        "condition": {
                            "asset_id": "0",
                             "slate id": "0",
                             "type": "withdraw_signature_type",
                             "data": {
                                 "owner": "GOP5iSiYMm1fkUtTcW7dQSVNDFZEGXNgj4fy"
                             }
                        }
                    }
                },
                {
                    "type": "imessage_memo_op_type",
                    "data": {
                        "imessage": "aa"
                    }
                }
            "signatures": [
```

转账到某个账户

调用前提:钱包解锁,钱包内有账户

Request:

```
{
    "id": "26",
    "result": {
        "index": "0",
        "is_market": false,
        "fee": {
            "asset_id": "0",
            "amount": "1000"
        },
        "is_confirmed": false,
        "ledger_entries": [
            {
                "from_account": "GOP5eLFrZG5gvc5g5xqEU6J3GELp5WcQYoqhz4JBPT7BVgTpqqxbN",
                "amount": {
                    "asset_id": "0",
                    "amount": "100000"
                "memo": "aa"
            }
        ],
        "received time": "2016-06-01T08:32:20",
        "is_virtual": false,
        "block_num": "0",
        "trx": {
            "gop_inport_asset": {
                "asset_id": "0",
                "amount": "0"
            },
            "operations": [
                {
                    "type": "withdraw_op_type",
                    "data": {
                        "claim_input_data": "",
                        "amount": "101000",
                        "balance_id": "GOPJEk1wuT9Vix4vQRidmAafz5hCWrS48un2"
                    }
                },
                    "type": "deposit_op_type",
                    "data": {
                        "amount": "100000",
                        "condition": {
                            "asset_id": "0",
                             "slate id": "0",
                             "type": "withdraw_signature_type",
                             "data": {
                                 "owner": "GOP5iSiYMm1fkUtTcW7dQSVNDFZEGXNgj4fy"
                             }
                        }
                    }
                },
                {
                    "type": "imessage_memo_op_type",
                    "data": {
                        "imessage": "aa"
                    }
                }
            "signatures": [
```

重新扫描区块,从中提取相关交易到钱包

调用前提:钱包解锁

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "29",
    "method": "wallet_rescan_blockchain"
}
```

Response Result:

```
{
    "id": "29",
    "result": "null"
}
```

取消当前区块的扫描操作

调用前提:钱包解锁

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "30",
    "method": "wallet_cancel_scan"
}
```

```
{
    "id": "30",
    "result": "null"
}
```

查询交易信息

调用前提:钱包打开

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "transaction_id_prefix"
],
    "id": "26",
    "method": "wallet_get_transaction"
}
```

```
{
    "id": "26",
    "result": {
        "index": "24",
        "is_market": false,
        "fee": {
            "asset_id": "0",
            "amount": "1000"
        },
        "is confirmed": true,
        "ledger_entries": [
            {
                "from_account": "GOP7zZSxzHsgSzmcdcMsYV9DZqAro71WrL5HnePJH5YbdQGfJRFKy",
                "amount": {
                    "asset_id": "0",
                    "amount": "100000"
                "memo": "To: GOP8XLL7...",
                "to_account": "GOP7VpiEMUB9LSYxk3APqJg7PPi256M8TSC9vzCEQhokjYYWHQmKx"
            }
        ],
        "received_time": "2016-06-28T01:42:26",
        "is_virtual": false,
        "block_num": "477920",
        "trx": {
            "gop_inport_asset": {
                "asset_id": "0",
                "amount": "0"
            },
            "operations": [
                {
                    "type": "withdraw_op_type",
                    "data": {
                        "claim_input_data": "",
                        "amount": "101000",
                        "balance_id": "GOP5Bf23THE4RoWzQqWAKn7PkmzJdgUWHDJV"
                    }
                },
                    "type": "deposit_op_type",
                    "data": {
                        "amount": "100000",
                        "condition": {
                            "asset id": "0",
                            "slate_id": "0",
                            "type": "withdraw_signature_type",
                            "data": {
                                "owner": "GOP8XLL78anJzHw1geMgzHsg5Hh447wuvYro"
                        }
                    }
                }
            ],
            "signatures": [
"1f34cfc2598fe247a81926b7814d0a8bb1929bd9d3278143b7422fe334677a19d851f6c4e71792d60c15c8b227f93717
            "expiration": "2016-06-28T01:42:28",
```

账号注册

调用前提:钱包解锁

Request:

```
"jsonrpc": "2.0",
    "params": [
        "account_name",
        "pay_from_account",
        "public_data",
        "delegate_pay_rate",
        "account_type"
],
    "id": "26",
    "method": "wallet_account_register"
}
```

```
{
    "id": "26",
    "result": {
        "index": "0",
        "is_market": false,
        "fee": {
            "asset_id": "0",
            "amount": "1000"
        },
        "is confirmed": false,
        "ledger_entries": [
            {
                "from_account": "GOP6e57Ms177rEGt4Db8rmjYMFveXQYVunsYjjmvma73tAg1XsHxx",
                "amount": {
                    "asset_id": "0",
                    "amount": "0"
                "memo": "register sy234",
                "to_account": "GOP6e57Ms177rEGt4Db8rmjYMFveXQYVunsYjjmvma73tAg1XsHxx"
            }
        ],
        "received_time": "2016-06-28T02:56:56",
        "is_virtual": false,
        "block_num": "0",
        "trx": {
            "gop_inport_asset": {
                "asset_id": "0",
                "amount": "0"
            },
            "operations": [
                {
                    "type": "register_account_op_type",
                    "data": {
                        "owner_key": "GOP6e57Ms177rEGt4Db8rmjYMFveXQYVunsYjjmvma73tAg1XsHxx",
                        "name": "sy234",
                        "active_key": "GOP7zZSxzHsgSzmcdcMsYV9DZqAro71WrL5HnePJH5YbdQGfJRFKy",
                        "meta_data": {
                            "type": "titan_account",
                            "data": ""
                        },
                        "public_data": "",
                        "delegate_pay_rate": "255"
                    }
                },
                    "type": "withdraw_op_type",
                    "data": {
                        "claim input data": "",
                        "amount": "1000",
                        "balance_id": "GOP5Bf23THE4RoWzQqWAKn7PkmzJdgUWHDJV"
                    }
                }
            ],
            "signatures": [
"204f4cb30eef8da006f74eb81a3991a45882117a63d9847b21cd992c82543f0a60647a0a2b4269c4baac2eb8c41d14d0
            "expiration": "2016-06-28T02:56:58",
```

```
"gop_account": ""
},
"entry_id": "d29cee8715b8c53001a7f0b4b1f30eea781090ca",
"created_time": "2016-06-28T02:56:56",
"extra_addresses": []
}
}
```

查询钱包内所有相关账户信息

调用前提:钱包打开

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "26",
    "method": "wallet_list_accounts"
}
```

```
{
    "id": "26",
    "result": [
        {
            "index": "25",
            "owner key": "GOP6pZUWPujhRUEPaoSBuKgwPVY3Ay3VYwfLZ33EnSreCLWRHyZ6M",
            "name": "gop1",
            "block_production_enabled": false,
            "registration date": "2015-05-31T16:00:00",
            "last update": "2015-05-31T16:00:00",
            "private_data": null,
            "delegate_info": {
                "pay_balance": "71063974",
                "total_burned": "0",
                "blocks_missed": "4481",
                "pay_rate": "100",
                "votes for": "1136147884",
                "blocks_produced": "5045",
                "last_block_num_produced": "479440",
                "total_paid": "571302974",
                "signing_key_history": [
                    "0",
                        "GOP6pZUWPujhRUEPaoSBuKgwPVY3Ay3VYwfLZ33EnSreCLWRHyZ6M"
                    1
                ],
                "next_secret_hash": "abe20661166e5e00a583d2dccdc23a25a706b190"
            "last_used_gen_sequence": "0",
            "is_favorite": false,
            "public_data": null,
            "id": "2",
            "is_my_account": false,
            "approved": "1",
            "active_key_history": [
                "2015-05-31T16:00:00",
                    "GOP6pZUWPujhRUEPaoSBuKgwPVY3Ay3VYwfLZ33EnSreCLWRHyZ6M"
            1
        },
        {
            "index": "27",
            "owner key": "GOP7d6PWo9bJWbGkv1naudu9CCm8jvvpcVNevE8nXS4QmrnHTCRbn",
            "name": "gop2",
            "block_production_enabled": false,
            "registration_date": "2015-05-31T16:00:00",
            "last update": "2015-05-31T16:00:00",
            "private data": null,
            "delegate_info": {
                "pay_balance": "539997745",
                "total_burned": "0",
                "blocks missed": "4499",
                "pay_rate": "100",
                "votes_for": "1436524291",
                "blocks_produced": "5029",
                "last_block_num_produced": "479448",
                "total_paid": "569642745",
                "signing_key_history": [
```

```
"0",
                "GOP7d6PWo9bJWbGkv1naudu9CCm8jvvpcVNevE8nXS4QmrnHTCRbn"
            1
        ],
        "next secret hash": "b1b022fb4831605311d5a96275332ef023f8f7fc"
    },
    "last used_gen_sequence": "0",
    "is_favorite": false,
    "public_data": null,
    "id": "3",
    "is my account": false,
    "approved": "1",
    "active_key_history": [
        "2015-05-31T16:00:00",
            "GOP7d6PWo9bJWbGkv1naudu9CCm8jvvpcVNevE8nXS4QmrnHTCRbn"
        1
    ]
},
{
    "index": "14",
    "owner_key": "GOP6e57Ms177rEGt4Db8rmjYMFveXQYVunsYjjmvma73tAg1XsHxx",
    "name": "sy234",
    "block_production_enabled": false,
    "registration_date": "2016-06-28T02:56:50",
    "meta_data": {
        "type": "titan account",
        "data": ""
    },
    "last_update": "2016-06-28T02:56:50",
    "private_data": null,
    "last_used_gen_sequence": "0",
    "is_favorite": false,
    "public_data": "",
    "id": "177",
    "is_my_account": true,
    "approved": "0",
    "active_key_history": [
        Γ
            "2016-06-28T02:56:50",
            "GOP7zZSxzHsgSzmcdcMsYV9DZqAro71WrL5HnePJH5YbdQGfJRFKy"
    ]
},
    "index": "33",
    "owner key": "GOP5aRA9JVFD1R8TvLJpKzjXrJUCG8Wg6BWKLnHpSYpGH9qPicPMd",
    "name": "sy345",
    "block_production_enabled": false,
    "registration_date": "2016-06-28T03:59:40",
    "meta data": {
        "type": "titan_account",
        "data": ""
    },
    "last_update": "2016-06-28T03:59:40",
    "private data": null,
    "last_used_gen_sequence": "0",
    "is_favorite": false,
    "public_data":
```

```
"id": "178",
           "is my account": true,
           "approved": "0",
           "active_key_history": [
               Γ
                  "2016-06-28T03:59:40",
                  "GOP6gUVodY7jnmSWk2Vkp8RKvSrmPgxpnpsXMWpodKxbDBww9Wwzt"
           ]
       },
           "index": "38",
           "owner_key": "GOP6uC6kdWehzhJV7e6MkowZvw8V2tjT5GU9CKoVrsb3REp7oT4s8",
           "name": "sy678",
           "block production enabled": false,
           "registration date": "1970-01-01T00:00:00",
           "last_update": "2016-06-28T06:07:18",
           "private data": null,
           "last_used_gen_sequence": "0",
           "is_favorite": false,
           "public_data": null,
           "id": "0",
           "is_my_account": true,
           "approved": "0",
           "active_key_history": [
               Γ
                  "2016-06-28T06:07:18",
                  "GOP5R7s2UhnG97xrtKEmFpx2iq6VxV3aDpNvJn3DvtYB9tQmFzfxR"
           ]
       },
           "index": "41",
           "owner_key": "GOP5YWupJFNhc6SAw33UGvBwK4cKtqC5UbZC18dwXLL1WSRimHY1s",
           "name": "sy6789",
           "block_production_enabled": false,
           "registration_date": "1970-01-01T00:00:00",
           "last update": "2016-06-28T06:08:32",
           "private data": null,
           "last_used_gen_sequence": "0",
           "is_favorite": false,
           "public data": null,
           "id": "0",
           "is my account": true,
           "approved": "0",
           "active_key_history": [
               "2016-06-28T06:08:32",
                  "GOP6V7YdCqxvS4cRWzQ2YSzGwN6A15ZaNfHoZHB9AALxZB13riWrw"
```

1

]

}

]

}

查询钱包内所有未注册的账户

调用前提:钱包打开

Request:

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "26",
    "method": "wallet_list_unregistered_accounts"
}
```

```
{
    "id": "26",
    "result": [
        {
            "index": "38",
            "owner_key": "GOP6uC6kdWehzhJV7e6MkowZvw8V2tjT5GU9CKoVrsb3REp7oT4s8",
            "name": "sy678",
            "block_production_enabled": false,
            "registration date": "1970-01-01T00:00:00",
            "last update": "2016-06-28T06:07:18",
            "private_data": null,
            "last_used_gen_sequence": "0",
            "is_favorite": false,
            "public_data": null,
            "id": "0",
            "is_my_account": true,
            "approved": "0",
            "active_key_history": [
                "2016-06-28T06:07:18",
                    "GOP5R7s2UhnG97xrtKEmFpx2ig6VxV3aDpNvJn3DvtYB9tQmFzfxR"
            ]
        },
            "index": "41",
            "owner_key": "GOP5YWupJFNhc6SAw33UGvBwK4cKtqC5UbZC18dwXLL1WSRimHY1s",
            "name": "sy6789",
            "block_production_enabled": false,
            "registration_date": "1970-01-01T00:00:00",
            "last_update": "2016-06-28T06:08:32",
            "private_data": null,
            "last_used_gen_sequence": "0",
            "is_favorite": false,
            "public_data": null,
            "id": "0",
            "is_my_account": true,
            "approved": "0",
            "active_key_history": [
                Γ
                    "2016-06-28T06:08:32",
                    "GOP6V7YdCqxvS4cRWzQ2YSzGwN6A15ZaNfHoZHB9AALxZB13riWrw"
                ]
            1
        }
    ]
}
```

列出钱包内拥有私钥的所有帐号

调用前提:钱包打开

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "40",
    "method": "wallet_list_my_accounts"
}
```

```
{
    "id": "17",
    "result": [
        {
            "index": "11",
            "owner key": "GOP5VoZWa93vxBF9DudYMhtdDdDjJvcqpk9WJpczFAMLcJ6H7mp8a",
            "name": "gophzk1",
            "block_production_enabled": false,
            "registration_date": "1970-01-01T00:00:00",
            "last_update": "2016-06-28T02:20:11",
            "private data": "null",
            "last_used_gen_sequence": "0",
            "is_favorite": false,
            "public_data": "null",
            "id": "0",
            "is_my_account": true,
            "approved": "0",
            "active_key_history": [
                    "2016-06-28T02:20:11",
                    "GOP5VoZWa93vxBF9DudYMhtdDdDjJvcqpk9WJpczFAMLcJ6H7mp8a"
            ]
        }
    ]
}
```

获取本地钱包中或者注册到链上一个账户的地址

调用前提:钱包打开

```
{
    "jsonrpc": "2.0",
    "params": [
        "account"
],
    "id": "43",
    "method": "wallet_get_account_public_address"
}
```

重命名一个未注册的账户

调用前提:钱包打开

Request:

Response Result:

```
{
    "id": "29",
    "result": "null"
}
```

获取指定账户余额

调用前提:钱包打开

```
{
    "jsonrpc": "2.0",
    "params": [
         "account"
],
    "id": "49",
    "method": "wallet_account_balance"
}
```

列出指定帐号的所有的余额记录ID

调用前提:钱包打开

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "account_name"
],
    "id": "50",
    "method": "wallet_account_balance_ids"
}
```

受托人领取转账工资接口

调用前提:钱包解锁

Request:

```
{
  "jsonrpc": "2.0",
  "params": [
      "delegate_name",
      "to_account_name",
      "amount_to_withdraw"
],
  "id": "52",
  "method": "wallet_delegate_withdraw_pay"
}
```

```
{
    "id": "26",
    "result": {
        "index": "0",
        "is_market": false,
        "fee": {
            "asset_id": "0",
            "amount": "1000"
        },
        "is_confirmed": false,
        "ledger_entries": [
            {
                "from_account": "GOP5eLFrZG5gvc5g5xqEU6J3GELp5WcQYoqhz4JBPT7BVgTpqqxbN",
                "amount": {
                    "asset_id": "0",
                    "amount": "100000"
                "memo": "aa"
            }
        ],
        "received time": "2016-06-01T08:32:20",
        "is_virtual": false,
        "block_num": "0",
        "trx": {
            "gop_inport_asset": {
                "asset_id": "0",
                "amount": "0"
            },
            "operations": [
                {
                    "type": "withdraw_op_type",
                    "data": {
                        "claim_input_data": "",
                        "amount": "101000",
                        "balance_id": "GOPJEk1wuT9Vix4vQRidmAafz5hCWrS48un2"
                    }
                },
                    "type": "deposit_op_type",
                    "data": {
                        "amount": "100000",
                        "condition": {
                            "asset_id": "0",
                             "slate id": "0",
                             "type": "withdraw_signature_type",
                             "data": {
                                 "owner": "GOP5iSiYMm1fkUtTcW7dQSVNDFZEGXNgj4fy"
                             }
                        }
                    }
                },
                {
                    "type": "imessage_memo_op_type",
                    "data": {
                        "imessage": "aa"
                    }
                }
            "signatures": [
```

受托人工资查询

调用前提:钱包解锁

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "account_name"
],
    "id": "53",
    "method": "wallet_delegate_pay_balance_query"
}
```

Response Result:

```
{
    "id": "53",
    "result": {
        "pay_balance": "1300000",
        "total_balance": "1300000"
    }
}
```

获取钱包内代理的出块状态

调用前提:钱包打开

```
"jsonrpc": "2.0",
    "params": [
        "account_name"
],
    "id": "54",
    "method": "wallet_get_delegate_statue"
}
```

```
{
    "id": "54",
    "result": false
}
```

删除本地钱包账户

调用前提:钱包解锁

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "account_name"
],
    "id": "36",
    "method": "wallet_account_delete"
}
```

Response Result:

```
{
    "id": "36",
    "result": true
}
```

设置本地转账手续费

调用前提:钱包打开

```
"jsonrpc": "2.0",
    "params": [
        "fee"
],
    "id": "36",
    "method": "wallet_set_transaction_fee"
}
```

```
{
    "id": "36",
    "result": {
        "asset_id": "0",
        "amount": "100"
    }
}
```

获取当前本地转账手续费

调用前提:钱包打开

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "symbol"
    ],
    "id": "36",
    "method": "wallet_get_transaction_fee"
}
```

Response Result:

```
{
    "id": "36",
    "result": {
        "asset_id": "0",
        "amount": "100"
    }
}
```

设置本地钱包是否启用扫描

调用前提:钱包打开

Request:

Response Result:

```
{
    "id": "36",
    "result": true
}
```

根据本地拥有的账户的地址或者公钥获取私钥

调用前提:钱包解锁

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "addr"
],
    "id": "61",
    "method": "wallet_dump_private_key"
}
```

```
{
    "id": "61",
    "result": "5JfeSoRUiosgA9kzcPTwmUZs6rEnYPz4iSqGHc9uKcscdjc96g9"
}
```

调用前提:钱包打开

Request:

```
"jsonrpc": "2.0",
    "params": [
        "delegate_name",
        "enabled"
],
    "id": "67",
    "method": "wallet_delegate_set_block_production"
}
```

Response Result:

```
{
    "id": "67",
    "result": "null"
}
```

获取本地钱包指定账户私钥

调用前提:钱包解锁

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "account",
        "key_type"
],
    "id": "62",
    "method": "wallet_dump_account_private_key"
}
```

```
{
    "id": "61",
    "result": "5JfeSoRUiosgA9kzcPTwmUZs6rEnYPz4iSqGHc9uKcscdjc96g9"
}
```

借由区块数或ID 来指定区块并获取其区块头 (header)信息

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "blocknum"
],
    "id": "2",
    "method": "blockchain_get_block"
}
```

Response Result:

```
"id": "2",
   "result": {
       "latency": "0",
       "user_transaction_ids": [],
       "delegate_signature":
"2002db1a3aa58e3768c794fd5295aa4a58691a294b650f6956c4edbea299df72bc282e54d762a6374765287bf7fad734
       "signee fees collected": "0",
       "processing_time": "0",
       "timestamp": "2016-03-21T05:16:40",
       "signee_shares_issued": "0",
       "block_num": "1000",
       "previous_secret": "7976c83635b5bc21cac6d4d762b789f97797681d",
       "next_secret_hash": "64159580b455cd4b95a4d22670745454f3693c1d",
       "signee_fees_destroyed": "0",
       "transaction_digest":
"c8cf12fe3180ed901a58a0697a522f1217de72d04529bd255627a4ad6164f0f0",
       "block size": "166",
       "id": "2df402a360d9956d51749428815ed671cc40ea5c",
       "previous": "5071675dc378fe85a9e4e76cb90651471bb47380"
   }
}
```

获取代理设置参数

调用前提:无

```
{
    "jsonrpc": "2.0",
    "params": [],
    "id": "36",
    "method": "delegate_get_config"
}
```

```
{
    "id": "36",
    "result": {
        "transaction_blacklist": [],
        "transaction_min_fee": "1000",
        "network min connection count": "4",
        "block_max_transaction_count": "4294967295",
        "transaction_max_size": "1024000",
        "operation_blacklist": [],
        "transaction_canonical_signatures_required": false,
        "block_max_size": "1024000",
        "block_max_production_time": "3000000",
        "transaction_imessage_max_soft_length": "40",
        "transaction_imessage_min_fee_coe": "100"
    }
}
```

设置当前代理产块所需的最小连接数

调用前提:无

Request:

```
{
    "id": "36",
    "result": "null"
}
```

设置当前代理产块最多容纳交易数

调用前提:无

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "count"
],
    "id": "36",
    "method": "delegate_set_block_max_transaction_count"
}
```

Response Result:

```
{
    "id": "36",
    "result": "null"
}
```

代理属性设置出的一个块的最大值

调用前提:可以通过73指令验证修改是否成功

Request:

```
{
    "id": "36",
    "result": "null"
}
```

代理属性设置一笔交易的大小的最大值

调用前提:可以通过73指令验证修改是否成功

Request:

```
{
    "jsonrpc": "2.0",
    "params": [
        "trx_size"
],
    "id": "2",
    "method": "delegate_set_transaction_max_size"
}
```

Response Result:

```
{
    "id": "36",
    "result": "null"
}
```

合约相关

编译合约

调用前提:RPC登录认证成功

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "compile_contract",
    "params": [
        "C:/Users/hasee/Desktop/test.glua"
]
}
```

```
{
    "id": "1",
    "result": "C:/Users/hasee/Desktop/test.gpc"
}
```

注册合约(链上)

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "register_contract",
    "params": [
        "test01",
        "C:/Users/hasee/Desktop/test1.gpc",
        "ALP",
        "0.1"
    ]
}
```

Response Result:

```
{
    "id": "1",
    "result": "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
}
```

注册合约 (testing)

调用前提:钱包打开,钱包解锁, RPC登录认证成功

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "register_contract_testing",
    "params": [
        "test01",
        "C:/Users/hasee/Desktop/test1.gpc"
]
}
```

```
{
    "id": "1",
    "result": [
            "amount": 1000,
            "asset_id": 0
        },
            "amount": 10000000,
            "asset_id": 0
        },
            "amount": 473,
            "asset_id": 0
        },
            "amount": 100,
            "asset_id": 0
    ]
}
```

升级合约(链上)

调用前提:钱包打开,钱包解锁,RPC登录认证成功

```
{
    "id": "1",
    "result": {
        "entry id": "1a6f38c365c7b14d4d24a263c74c9d80f0296394",
        "block_num": 0,
        "is_virtual": false,
        "is_confirmed": false,
        "is_market": false,
        "trx": {
            "expiration": "2016-09-28T06:44:46",
            "alp_account": "",
            "alp_inport_asset": {
                "amount": 0,
                "asset_id": 0
            },
            "operations": [
                {
                    "type": "upgrade_contract_op_type",
                        "id": "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
                        "name": "my_contract_1",
                        "desc": "this is my first contract",
                        "balances": [
                            [
                                 "ALPPe9u4ZmBj38D5GzPPSz9LLe8J3LpM89o8",
                                 1000
                            ]
                        ]
                    }
                }
            ],
            "signatures": [
"2027fbcf936eeb898593fade96c26bef189462d60b1e60a8fb95f73cbfd0e6632423346678f5691a9f7f5e20681656b7
            ]
        },
        "ledger_entries": [
            {
                "amount": {
                    "amount": 0,
                    "asset id": 0
                },
                "memo": ""
            }
        ],
        "fee": {
            "amount": 10001000,
            "asset_id": 0
        },
        "created_time": "2016-09-28T05:44:46",
        "received time": "2016-09-28T05:44:46",
        "extra_addresses": [
            "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
    }
}
```

升级合约 (testing)

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
"jsonrpc": "2.0",
    "id": "1",
    "method": "upgrade_contract_testing",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "test01",
        "my_contract_1",
        "this is my first contract"
]
```

Response Result:

删除合约(链上)

调用前提:钱包打开,钱包解锁,RPC登录认证成功

```
{
  "jsonrpc": "2.0",
  "id": "1",
  "method": "destroy_contract",
  "params": [
        "CONPZdkAuyDthiftdDzp8Hg7PqyK9MiTnL2q",
        "test01"
        "ALP"
        "10"
]
```

```
{
    "id": "1",
    "result": {
        "entry id": "111eae250a783bba4d9f5e8bee56af762b447dfe",
        "block_num": 0,
        "is_virtual": false,
        "is_confirmed": false,
        "is_market": false,
        "trx": {
            "expiration": "2016-09-28T07:02:06",
            "alp_account": "",
            "alp_inport_asset": {
                "amount": 0,
                "asset_id": 0
            },
            "operations": [
                {
                    "type": "destroy_contract_op_type",
                        "id": "ALPPZdkAuyDthiftdDzp8Hg7PqyK9MiTnL2q",
                        "balances": [
                             "ALPPe9u4ZmBj38D5GzPPSz9LLe8J3LpM89o8",
                             ]
                        ]
                    }
                }
            ],
            "signatures": [
"1f4d9614000a6000940b98186d28f1e28faa0326f912b234ed31822c10140889b72183551449b0b18da4c9f4c355b345"
            ]
        },
        "ledger_entries": [
            {
                "amount": {
                    "amount": 0,
                    "asset_id": 0
                },
                "memo": ""
            }
        ],
        "fee": {
            "amount": 1000,
            "asset id": 0
        },
        "created_time": "2016-09-28T06:02:06",
        "received_time": "2016-09-28T06:02:06",
        "extra_addresses": [
            "ALPPZdkAuyDthiftdDzp8Hg7PqyK9MiTnL2q"
    }
}
```

删除合约 (testing)

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "destroy_contract_testing",
    "params": [
        "CONPZdkAuyDthiftdDzp8Hg7PqyK9MiTnL2q",
        "test01"
]
}
```

Response Result:

调用合约(链上)

调用前提:钱包打开,钱包解锁,RPC登录认证成功

```
{
    "id": "0",
    "result": {
        "index": ∅,
        "entry id": "d57f3b339a40eb1d9a72359d1a3c9d9e67434673",
        "block_num": 0,
        "is_virtual": false,
        "is_confirmed": false,
        "is_market": false,
        "trx": {
            "expiration": "2016-11-21T06:53:19",
            "alp_account": "",
            "alp_inport_asset": {
                "amount": 0,
                "asset_id": 0
            },
            "operations": [
                {
                    "type": "call_contract_op_type",
                    "data": {
                        "caller": "ALP8CqTJMSBzgqFxudU5TWzQyVDgmqrqax3ApNDGDwEZV7uXKTND2",
                        "balances": [
                            [
                                 "ALPJqWqjsVdAXCK99knVmeCE7EpAuFdTmFux",
                                101000
                            ]
                        "contract": "ALPMR24hkhmuJ8X6eiEhdT2vqV1FvCcS5vDf",
                         "costlimit": {
                            "amount": 100000,
                            "asset_id": 0
                        },
                        "method": "print",
                        "args": ""
                    }
                }
            ],
            "signatures": [
"2030cd70eadf10532a4b27613252c3c2c5bd61ccd5f22911c18727676625cae9411ffed0f6383efdd48568ed9559d981
            ]
        },
        "ledger entries": [],
        "fee": {
           "amount": 1000,
            "asset id": 0
        "created_time": "2016-11-21T05:53:19",
        "received_time": "2016-11-21T05:53:19",
        "extra_addresses": []
    }
}
```

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "call_contract_testing",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "test01",
        "function_not_exist",
        ""
    ]
}
```

Response Result:

向合约转账(链上)

调用前提:钱包打开,钱包解锁,RPC登录认证成功

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "wallet_transfer_to_contract",
    "params": [
        "10",
        "ALP",
        "test01",
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "1"
    ]
}
```

```
{
    "id": "1",
    "result": {
        "entry id": "1003bfb6f006509eadaa0567152b995aca63db1b",
        "block_num": 0,
        "is_virtual": false,
        "is_confirmed": false,
        "is market": false,
        "trx": {
            "expiration": "2016-09-28T07:34:09",
            "alp_account": "",
            "alp_inport_asset": {
                "amount": 0,
                "asset id": 0
            },
            "operations": [
                {
                    "type": "transfer_contract_op_type",
                        "from": "ALP785tCDTiTNu2FxDkzKazkTvFbVeJ4bAo9A1VuJV7yBdB7J7UbB",
                        "costlimit": {
                            "amount": 100000,
                            "asset_id": 0
                        },
                        "transfer amount": {
                            "amount": 1000000,
                            "asset_id": 0
                        },
                        "balances": [
                            [
                                 "ALPPe9u4ZmBj38D5GzPPSz9LLe8J3LpM89o8",
                                1101000
                            ]
                        ],
                        "contract_id": "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
                    }
                }
            "signatures": [
"1f0acbf0ab2c3338e478157e02bcd770e22a832b85ace93bb58cc7e9c3f241b59e7029f1c7a029417d3753dc508712e9
            1
        },
        "ledger_entries": [
            {
                "from account": "ALP785tCDTiTNu2FxDkzKazkTvFbVeJ4bAo9A1VuJV7yBdB7J7UbB",
                "amount": {
                    "amount": 1000000,
                    "asset_id": 0
                },
                "memo": ""
            }
        ],
        "fee": {
            "amount": 1000,
            "asset id": 0
        },
```

向合约转账 (testing)

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "wallet_transfer_to_contract_testing",
    "params": [
        "10000",
        "ALP",
        "test01",
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
]
}
```

Response Result:

查询合约信息

调用前提:RPC登录认证成功

Request:

Response Result:

```
{
    "id": "1",
    "result": {
        "contract_name": "my_contract_1",
        "id": "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "level": "forever",
        "owner": "ALP785tCDTiTNu2FxDkzKazkTvFbVeJ4bAo9A1VuJV7yBdB7J7UbB",
        "owner_address": "ALPLMSC5rhePQeVgLQrjqVMdC9pmB97451CG",
        "owner_name": ""
        "state": "valid",
        "description": "this is my first contract",
        "code_printable": {
            "abi": [
                "init",
                "start"
            ],
            "offline_abi": [],
            "events": [],
            "printable_storage_properties": [],
            "printable_code":
"1b4c7561530019930d0a1a0a0408040808785600000000000000000000287740012140453a5c476f6f70616c332e30
            "code hash": "df6d3e2343718599ac6343ba2bd3d4e7cc7e7347"
        },
        "trx id": "ccb1c3cdadfb6a0883863d5b2c9605cd3ba9ab99"
    }
}
```

查询合约余额

调用前提:RPC登录认证成功

```
{
    "id": "1",
    "result": [
        {
            "condition": {
                "asset_id": 0,
                "slate_id": 0,
                "type": "withdraw_signature_type",
                    "owner": "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
                }
            },
            "balance": 1000000,
            "deposit_date": "2016-09-28T06:34:00",
            "last_update": "2016-09-28T06:34:00",
            "meta_data": null
        },
            "condition": {
                "asset_id": 0,
                "slate_id": 0,
                "type": "withdraw_signature_type",
                "data": {
                    "owner": "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
                }
            },
            "balance": 0,
            "deposit_date": "2016-09-26T09:08:40",
            "last_update": "2016-09-28T05:44:40",
            "meta_data": null
        }
    ]
}
```

打开/关闭本地解释器验证开关

调用前提:钱包打开,钱包解锁,RPC登录认证成功

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "blockchain_set_node_vm_enabled",
    "params": [
        "true"
]
}
```

```
{
    "id": "1",
    "result": null
}
```

获取是否打开本地解释器验证开关

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "blockchain_get_node_vm_enabled",
    "params": [
    ]
}
```

Response Result:

```
{
    "id": "1",
    "result": true
}
```

导出合约到文件

调用前提:RPC登录认证成功

```
"jsonrpc": "2.0",
    "id": "1",
    "method": "load_contract_to_file",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "D:/contract_to_export.gpc"
]
```

```
{
    "id": "1",
    "result": {
        "contract_name": "my_contract_1",
        "id": "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "level": "forever",
        "owner": "ALP785tCDTiTNu2FxDkzKazkTvFbVeJ4bAo9A1VuJV7yBdB7J7UbB",
        "state": "valid",
        "description": "this is my first contract",
        "code_printable": {
            "abi": [
                "init",
                "start"
            "offline_abi": [
            ],
            "events": [
            ],
            "printable_code":
"1b4c7561530019930d0a1a0a0408040808785600000000000000000000287740012140453a5c476f6f70616c332e30
            "code hash": "df6d3e2343718599ac6343ba2bd3d4e7cc7e7347"
        },
        "trx_id": "ccb1c3cdadfb6a0883863d5b2c9605cd3ba9ab99"
    }
}
```

获取合约结果交易hash

调用前提:RPC登录认证成功

```
{
    "id": "0",
    "result": "94201d7b852e887b165c93458fe13ba48bd6f57e"
}
```

根据合约地址获取创建此合约的原始交易hash

调用前提:RPC登录认证成功

Request:

Response Result:

```
{
    "id": "0",
    "result": "CON8wiH4jjovUC9c6FG7B15kwD6eqaVLVBJw"
}
```

根据原始交易hash(创建合约)获取合约地址

调用前提:RPC登录认证成功

```
{
    "id": "0",
    "result": "10c14b782d5574b4d0e4a70eeff788eb07dd7a3f"
}
```

获取链上的所有合约信息

调用前提:RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "blockchain_get_all_contracts",
    "params": [ ]
}
```

Response Result:

```
{
    "id":1,
    "result":
    ["ALP9dAKb5nDttSvH3T9oEuTdu3WeScKt8vcv","ALPCs5JotmSyYK696nafFcYAX6iPZh7Xbh2u"]
}
```

获取链上的所有永久合约信息

调用前提:RPC登录认证成功

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "blockchain_get_forever_contracts",
    "params": [ ]
}
```

```
{
    "id":1,"
    "result":[["ALP9dAKb5nDttSvH3T9oEuTdu3WeScKt8vcv","wens"]]
}
```

获取钱包下账户的合约信息

调用前提: RPC登录认证成功, 钱包打开, 钱包解锁

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": " wallet_get_contracts ",
    "params": ["account_name"] (如果不填参数默认是获取钱包下所有账户的合约信息)
}
```

Response Result:

```
{
    "id":1,
    "result":["ALP9dAKb5nDttSvH3T9oEuTdu3WeScKt8vcv","ALPCs5JotmSyYK696nafFcYAX6iPZh7Xbh2u"]
}
```

扫描更新钱包下所有账户的合约信息

调用前提:RPC登录认证成功,钱包打开,钱包解锁

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": " wallet_scan_contracts ",
    "params": [ ]
}
```

```
{
    "id":1,
    "result":null
}
```

沙箱相关

打开沙箱

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_open",
    "params": [
]
}
```

Response Result:

```
{
    "id": "1",
    "result": null
}
```

关闭沙箱

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_close",
    "params": [
]
}
```

```
{
    "id": "1",
    "result": null
}
```

沙箱中编译合约

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

Response Result:

```
{
    "id": "1",
    "result": "C:/Users/hasee/Desktop/test.gpc"
}
```

沙箱中注册合约(沙箱)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_register_contract",
    "params": [
        "test01",
        "C:/Users/hasee/Desktop/test1.gpc",
        "ALP",
        "0.1"
    ]
}
```

```
{
    "id": "1",
    "result": "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
}
```

沙箱中注册合约 (沙箱testing)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_register_contract_testing",
    "params": [
        "test01",
        "C:/Users/hasee/Desktop/test1.gpc"
]
}
```

```
{
    "id": "1",
    "result": [
        {
            "amount": 1000,
            "asset_id": 0
        },
            "amount": 10000000,
            "asset_id": 0
        },
        {
            "amount": 473,
            "asset_id": 0
        },
            "amount": 100,
            "asset_id": 0
        }
    ]
}
```

沙箱中调用合约(沙箱)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "0",
    "method": "sandbox_call_contract",
    "params": [
        "CONMR24hkhmuJ8X6eiEhdT2vqV1FvCcS5vDf",
        "alp0",
        "print",
        "",
        "ALP",
        "1"
    ]
}
```

```
{
    "id": "0",
    "result": {
        "index": ∅,
        "entry id": "d57f3b339a40eb1d9a72359d1a3c9d9e67434673",
        "block_num": 0,
        "is_virtual": false,
        "is_confirmed": false,
        "is_market": false,
        "trx": {
            "expiration": "2016-11-21T06:53:19",
            "alp_account": "",
            "alp_inport_asset": {
                "amount": 0,
                "asset_id": 0
            },
            "operations": [
                {
                    "type": "call_contract_op_type",
                    "data": {
                        "caller": "ALP8CqTJMSBzgqFxudU5TWzQyVDgmqrqax3ApNDGDwEZV7uXKTND2",
                        "balances": [
                            "ALPJqWqjsVdAXCK99knVmeCE7EpAuFdTmFux",
                                101000
                            ]
                        "contract": "ALPMR24hkhmuJ8X6eiEhdT2vqV1FvCcS5vDf",
                        "costlimit": {
                            "amount": 100000,
                            "asset_id": 0
                        },
                        "method": "print",
                        "args": ""
                    }
                }
            ],
            "signatures": [
"2030cd70eadf10532a4b27613252c3c2c5bd61ccd5f22911c18727676625cae9411ffed0f6383efdd48568ed9559d981
            ]
        },
        "ledger entries": [],
        "fee": {
           "amount": 1000,
            "asset id": 0
        "created_time": "2016-11-21T05:53:19",
        "received_time": "2016-11-21T05:53:19",
        "extra_addresses": []
    }
}
```

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_call_contract_testing",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "test01",
        "function_not_exist",
        ""
]
}
```

Response Result:

沙箱中升级合约(沙箱)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

```
"jsonrpc": "2.0",
"id": "1",
"method": "sandbox_upgrade_contract",
"params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "test01",
        "my_contract_1",
        "this is my first contract"
        "ALP"
        "10"
]
```

```
{
    "id": "1",
    "result": {
        "entry id": "1a6f38c365c7b14d4d24a263c74c9d80f0296394",
        "block_num": 0,
        "is_virtual": false,
        "is_confirmed": false,
        "is_market": false,
        "trx": {
            "expiration": "2016-09-28T06:44:46",
            "alp_account": "",
            "alp_inport_asset": {
                "amount": 0,
                "asset_id": 0
            },
            "operations": [
                {
                    "type": "upgrade_contract_op_type",
                        "id": "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
                        "name": "my_contract_1",
                        "desc": "this is my first contract",
                        "balances": [
                            [
                                 "ALPPe9u4ZmBj38D5GzPPSz9LLe8J3LpM89o8",
                                 1000
                            ]
                        ]
                    }
                }
            ],
            "signatures": [
"2027fbcf936eeb898593fade96c26bef189462d60b1e60a8fb95f73cbfd0e6632423346678f5691a9f7f5e20681656b7
            ]
        },
        "ledger_entries": [
            {
                "amount": {
                    "amount": 0,
                    "asset id": 0
                },
                "memo": ""
            }
        ],
        "fee": {
            "amount": 10001000,
            "asset_id": 0
        },
        "created_time": "2016-09-28T05:44:46",
        "received time": "2016-09-28T05:44:46",
        "extra_addresses": [
            "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
    }
}
```

沙箱中升级合约 (沙箱testing)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_upgrade_contract_testing",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "test01",
        "my_contract_1",
        "this is my first contract"
]
}
```

Response Result:

沙箱中删除合约(沙箱)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

```
{
    "id": "1",
    "result": {
        "entry id": "111eae250a783bba4d9f5e8bee56af762b447dfe",
        "block_num": 0,
        "is_virtual": false,
        "is_confirmed": false,
        "is_market": false,
        "trx": {
            "expiration": "2016-09-28T07:02:06",
            "alp_account": "",
            "alp_inport_asset": {
                "amount": 0,
                "asset_id": 0
            },
            "operations": [
                {
                    "type": "destroy_contract_op_type",
                        "id": "ALPPZdkAuyDthiftdDzp8Hg7PqyK9MiTnL2q",
                        "balances": [
                             "ALPPe9u4ZmBj38D5GzPPSz9LLe8J3LpM89o8",
                             ]
                        ]
                    }
                }
            ],
            "signatures": [
"1f4d9614000a6000940b98186d28f1e28faa0326f912b234ed31822c10140889b72183551449b0b18da4c9f4c355b345"
            ]
        },
        "ledger_entries": [
            {
                "amount": {
                    "amount": 0,
                    "asset_id": 0
                },
                "memo": ""
            }
        ],
        "fee": {
            "amount": 1000,
            "asset id": 0
        },
        "created_time": "2016-09-28T06:02:06",
        "received_time": "2016-09-28T06:02:06",
        "extra_addresses": [
            "ALPPZdkAuyDthiftdDzp8Hg7PqyK9MiTnL2q"
    }
}
```

沙箱中删除合约 (沙箱testing)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_destroy_contract_testing",
    "params": [
        "CONPZdkAuyDthiftdDzp8Hg7PqyK9MiTnL2q",
        "test01"
    ]
}
```

Response Result:

沙箱中转账到合约(沙箱)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_transfer_to_contract",
    "params": [
        "10",
        "ALP",
        "test01",
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "1"
    ]
}
```

```
{
    "id": "1",
    "result": {
        "entry id": "1003bfb6f006509eadaa0567152b995aca63db1b",
        "block_num": 0,
        "is_virtual": false,
        "is_confirmed": false,
        "is market": false,
        "trx": {
            "expiration": "2016-09-28T07:34:09",
            "alp_account": "",
            "alp_inport_asset": {
                "amount": 0,
                "asset id": 0
            },
            "operations": [
                {
                    "type": "transfer_contract_op_type",
                        "from": "ALP785tCDTiTNu2FxDkzKazkTvFbVeJ4bAo9A1VuJV7yBdB7J7UbB",
                        "costlimit": {
                            "amount": 100000,
                            "asset_id": 0
                        },
                        "transfer amount": {
                            "amount": 1000000,
                            "asset_id": 0
                        },
                        "balances": [
                            [
                                 "ALPPe9u4ZmBj38D5GzPPSz9LLe8J3LpM89o8",
                                1101000
                            ]
                        ],
                        "contract_id": "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
                    }
                }
            "signatures": [
"1f0acbf0ab2c3338e478157e02bcd770e22a832b85ace93bb58cc7e9c3f241b59e7029f1c7a029417d3753dc508712e9
            1
        },
        "ledger_entries": [
            {
                "from account": "ALP785tCDTiTNu2FxDkzKazkTvFbVeJ4bAo9A1VuJV7yBdB7J7UbB",
                "amount": {
                    "amount": 1000000,
                    "asset_id": 0
                },
                "memo": ""
            }
        ],
        "fee": {
            "amount": 1000,
            "asset id": 0
        },
```

沙箱中向合约转账 (沙箱testing)

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_transfer_to_contract_testing",
    "params": [
        "10000",
        "ALP",
        "test01",
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
]
}
```

Response Result:

沙箱中查询合约信息

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_get_contract_info",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
    ]
}
```

Response Result:

```
{
    "id": "1",
    "result": {
        "contract_name": "my_contract_1",
        "id": "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "level": "forever",
        "owner": "ALP785tCDTiTNu2FxDkzKazkTvFbVeJ4bAo9A1VuJV7yBdB7J7UbB",
        "state": "valid",
        "description": "this is my first contract",
        "code_printable": {
            "abi": [
                "init",
                "start"
            "offline_abi": [],
            "events": [],
            "printable code":
"1b4c7561530019930d0a1a0a0408040808785600000000000000000000287740012140453a5c476f6f70616c332e30"
            "code_hash": "df6d3e2343718599ac6343ba2bd3d4e7cc7e7347"
        },
        "trx id": "ccb1c3cdadfb6a0883863d5b2c9605cd3ba9ab99"
    }
}
```

沙箱中查询合约余额

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

Response Result:

```
{
    "id": "1",
    "result": [
        {
            "condition": {
                "asset_id": 0,
                "slate_id": 0,
                "type": "withdraw_signature_type",
                    "owner": "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
                }
            },
            "balance": 1000000,
            "deposit_date": "2016-09-28T06:34:00",
            "last_update": "2016-09-28T06:34:00",
            "meta_data": null
        },
            "condition": {
                "asset_id": 0,
                "slate_id": 0,
                "type": "withdraw_signature_type",
                "data": {
                    "owner": "ALPJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE"
            },
            "balance": 0,
            "deposit_date": "2016-09-26T09:08:40",
            "last_update": "2016-09-28T05:44:40",
            "meta_data": null
        }
    ]
}
```

沙箱中查询账户余额

调用前提:钱包打开,钱包解锁,沙箱打开,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "sandbox_account_balance",
    "params": [
        "test01"
]
}
```

Response Result:

本地脚本相关

编译本地脚本

调用前提:RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "compile_script",
    "params": [
        "C:/Users/hasee/Desktop/test.glua"
]
}
```

```
{
    "id": "1",
    "result": "C:/Users/hasee/Desktop/test.script"
}
```

列出钱包中所有本地脚本

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "list_scripts",
    "params": [
]
}
```

```
{
    "id": "1",
    "result": [
            "id": "SCRARHqLKbP7Sigkme6X5cjHUjxBh9UKFQd8",
            "filename": "test.script",
            "enable": true,
            "code_printable": {
                "abi": [
                ],
                "offline_abi": [
                ],
                "events": [
                ],
                "printable_code":
"1b4c7561530019930d0a1a0a0408040808785600000000000000000000287740012140433a2f55736572732f686173
                "code hash": "93924b0b4dd7435704f079f6b93e4744b01a17fb"
            },
            "description": "this is my first script",
            "register_time": "2016-09-28T08:41:23"
        }
    ]
}
```

查询本地指定脚本信息

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

Response Result:

```
{
    "id": "1",
    "result": {
        "id": "SCRARHqLKbP7Sigkme6X5cjHUjxBh9UKFQd8",
        "filename": "test.script",
        "enable": true,
        "code_printable": {
            "abi": [
            "offline_abi": [
            ],
            "events": [
            ],
            "printable_code":
"1b4c7561530019930d0a1a0a0408040808785600000000000000000000287740012140433a2f55736572732f686173
            "code hash": "93924b0b4dd7435704f079f6b93e4744b01a17fb"
        },
        "description": "this is my first script",
        "register_time": "2016-09-28T08:41:23"
    }
}
```

添加新的本地脚本

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
"jsonrpc": "2.0",
    "id": "1",
    "method": "add_script",
    "params": [
        "C:/Users/hasee/Desktop/test.script",
        "this is my first script"
]
}
```

Response Result:

```
{
    "id": "1",
    "result": "SCRARHqLKbP7Sigkme6X5cjHUjxBh9UKFQd8"
}
```

删除本地脚本

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

Response Result:

```
{
    "id": "1",
    "result": null
}
```

禁用一个本地脚本

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

Response Result:

```
{
    "id": "1",
    "result": null
}
```

启用一个本地脚本

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "enable_script",
    "params": [
        "SCRARHqLKbP7Sigkme6X5cjHUjxBh9UKFQd8"
]
}
```

Response Result:

```
{
    "id": "1",
    "result": null
}
```

查询与合约中的Event相关的本地脚本

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "list_event_handler",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "event_type1"
    ]
}
```

Response Result:

```
{
   "id": "1",
   "result": [
        "SCRARHqLKbP7Sigkme6X5cjHUjxBh9UKFQd8"
]
}
```

向合约中的Event添加一个相关的本地脚本

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
"jsonrpc": "2.0",
    "id": "1",
    "method": "add_event_handler",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "event_type1",
        "SCRARHqLKbP7Sigkme6X5cjHUjxBh9UKFQd8",
        "0"
]
```

```
{
    "id": "1",
    "result": null
}
```

从合约中的Event删除一个相关的本地脚本

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
"jsonrpc": "2.0",
    "id": "1",
    "method": "delete_event_handler",
    "params": [
        "CONJuXHfWSGo51cGbD3dXVpQs8B5v7MrFZcE",
        "event_type1",
        "SCRARHqLKbP7Sigkme6X5cjHUjxBh9UKFQd8"
]
}
```

Response Result:

```
{
    "id": "1",
    "result": null
}
```

导出本地脚本库以及与Event的关系库

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "export_script_db",
    "params": [
        "F:/script_db"
]
}
```

```
{
    "id": "1",
    "result": null
}
```

导入本地脚本库以及与Event的关系库

调用前提:钱包打开,钱包解锁,RPC登录认证成功

Request:

```
{
    "jsonrpc": "2.0",
    "id": "1",
    "method": "import_script_db",
    "params": [
        "F:/script_db"
]
}
```

```
{
    "id": "1",
    "result": null
}
```