# **EIYARO Core API Reference**

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# **Wallet Endpoints**

These endpoints are available when we set: **config.toml** 

```
[wallet]
disable = false
```

This is the default value and we can possibly omit it.

# **Create Key Endpoint**

Creates a private key. The private key is encrypted in the file and not visible to the user.

## **Parameters**

### Object:

- String alias, name of the key.
- String password, password of the key.
- String language, mnemonic language of the key.

## Optional:

• String - mnemonic, mnemonic of the key, create key by specified mnemonic.

#### **Returns**

### Object:

- String alias, name of the key.
- String xpub, root pubkey of the key.
- String file, path to the file of key.

### Optional:

• String - mnemonic, mnemonic of the key, exist when the request mnemonic is null.

## **Example**

Create key by random pattern:

## Request

```
curl -X POST http://localhost:9888/create-key -d '{"alias": "alice", "password":
"123456", "language": "en"}'
```

## Response

```
{
   "alias": "alice",
   "xpub":
"a85e6eccb22f4c5fdade905f9a969003a17b6f35c237183a4313354b819a92689d52da3bcfe55f15a5508
77e8d789bd2bb9620f46e5049ea36470ab1b588a986",
   "file": "/home/yang/.eiyaro/keystore/UTC--2024-3-10T07-09-17.509894697Z--341695b9-
9223-470c-a26d-bea210f8e1bb",
   "mnemonic": "verb smoke glory dentist annual peanut oval dragon fiction current
orbit lab load total language female mushroom coyote regular toy slide welcome employ
three"
}
```

Create key by specified mnemonic:

## Request

```
curl -X POST http://localhost:9888/create-key -d '{"alias":"jack",
   "password":"123456", "mnemonic":"please observe raw beauty blue sea believe then boat
   float beyond position", "language":"en"}'
```

```
{
```

# **List Keys Endpoint**

Returns the list of all available keys.

#### **Parameters**

None.

### **Returns**

- Array of Object, keys owned by the client.
  - object:
    - String alias, name of the key.
    - String xpub, pubkey of the key.

## **Example**

Request a list of the current keys on the node.

## Request

```
curl -X POST http://localhost:9888/list-keys
```

# **Update Key Alias Endpoint**

Update the alias for an existing key.

### **Parameters**

### Object:

- String xpub, pubkey of the key.
- String new\_alias, new alias of the key.

### **Returns**

Nothing in case the key alias is updated successfully.

## **Example**

Update an existing key's alias.

## Request

```
curl -X POST http://localhost:9888/update-key-alias -d '{"xpub":
"a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
fa625ad61b3253375ea744c9442dd5551613ba50aea", "new_alias": "new_key"}'
```

## Response

No response in case operation was successful.

# **Delete Key Endpoint**

Deletes an existing key.



Please make sure that there is no balance in the related accounts.

### **Parameters**

#### Object:

• String - xpub, pubkey of the key.

• String - password, password of the key.

### **Returns**

Nothing in case the key is deleted successfully.

## **Example**

Delete an existing key.

### Request

```
curl -X POST {bas-url}delete-key -d '{"xpub":
"a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
fa625ad61b3253375ea744c9442dd5551613ba50aea", "password": "123456"}'
```

### Response

No response in case operation was successful.

# **Check Key Password Endpoint**

Check an existing key's password.

## **Parameters**

#### Object:

- String xpub, pubkey of the key.
- String password, password of the key.

### **Returns**

#### Object:

• Boolean - check\_result, if check is successful the value will be true, otherwise it will be false.

## **Example**

Check the password for an existing key.

## Request

```
curl -X POST http://localhost:9888/check-key-password -d '{"xpub":
"a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
fa625ad61b3253375ea744c9442dd5551613ba50aea", "password": "123456"}'
```

### Response

```
{
    "check_result": true
}
```

# **Reset Key Password Endpoint**

Reset an existing key's password.

#### **Parameters**

## Object:

- String xpub, pubkey of the key.
- String old\_password, old password of the key.
- String new\_password, new password of the key.

## **Returns**

## Object:

• Boolean - changed, if reset is successful the value will be true, otherwise it will be false.

## **Example**

Reset the password for an existing key.

### Request

```
curl -X POST http://localhost:9888/reset-key-password -d '{"xpub":
"a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
fa625ad61b3253375ea744c9442dd5551613ba50aea", "old_password": "123456",
"new_password": "654321"}'
```

### Response

```
{
    "changed": true
}
```

# **Create Account Endpoint**

Create an account to manage addresses.

Single sign account contains only one root\_xpubs and quorum; however multi sign account can

contain any number of root\_xpubs and quorum.

Quorum is the number of verify signatures, the range is [1, len(root\_xpubs)].

### **Parameters**

#### Object:

- Array of String root\_xpubs, pubkey array.
- String alias, name of the account.
- Integer quorum, the default value is 1, threshold of keys that must sign a transaction to spend asset units controlled by the account.

### Optional:

• String - access\_token, if optional when creating account locally. However, if you want to create account remotely, it's indispensable.

#### **Returns**

### Object:

- String id, account id.
- String alias, name of account.
- Integer key\_index, key index of account.
- Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.
- Array of Object xpubs, pubkey array.

## **Example**

Create an account with a given root\_xpubs and alias.

### Request

```
curl -X POST http://localhost:9888/create-account -d
'{"root_xpubs":["2d6c07cb1ff7800b0793e300cd62b6ec5c0943d308799427615be451ef09c0304bee5
dd492c6b13aaa854d303dc4f1dcb229f9578786e19c52d860803efa3b9a"],"quorum":1,"alias":"alic
e"}'
```

```
{
    "alias": "alice",
    "id": "08F0663C00A02",
    "key_index": 1,
    "quorum": 1,
```

```
"xpubs": [

"2d6c07cb1ff7800b0793e300cd62b6ec5c0943d308799427615be451ef09c0304bee5dd492c6b13aaa854
d303dc4f1dcb229f9578786e19c52d860803efa3b9a"
]
}
```

# **List Accounts Endpoint**

Returns a list of the available accounts on the node.

## **Parameters**

Optional:

- String id, account id.
- String alias, name of account.

#### **Returns**

- Array of Object, account array.
  - o Object:
    - String id, account id.
    - String alias, name of account.
    - Integer key\_index, key index of account.
    - Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.
    - Array of Object xpubs, pubkey array.

## **Example**

Request a list of the accounts present on the node.

## Request

```
curl -X POST http://localhost:9888/list-accounts -d '{"alias":"alice"}'
```

# **Update Account Alias Endpoint**

Updates an alias for the an existing account.

#### **Parameters**

```
Object: account_alias | account_id
* String - new_alias, new alias of account.
optional:
```

- String account\_alias, alias of account.
- String account\_id, id of account.

### **Returns**

Nothing in case the account alias is updated successfully.

## **Example**

Update the alias for a given account ID or an account alias.

### Request

```
curl -X POST http://localhost:9888/update-account-alias -d '{"account_id":
   "08F0663C00A02", "new_alias": "new_account"}'
# or
curl -X POST http://localhost:9888/update-account-alias -d '{"account_alias": "alice",
   "new_alias": "new_account"}'
```

### Response

No response in case operation was successful.

# **Delete Account Endpoint**

Delete an existing account.



### **Parameters**

Object: account\_alias | account\_id

### Optional:

- String account\_alias, alias of account.
- String account\_id, id of account.

#### **Returns**

Nothing if the account is deleted successfully.

## **Example**

Delete an existing account by account ID or account alias.

## Request

```
curl -X POST http://localhost:9888/delete-account -d '{"account_id": "08F0663C00A02"}'
# or
curl -X POST http://localhost:9888/delete-account -d '{"account_alias": "alice"}'
```

## Response

No response in case operation was successful.

## **Create Account Receiver Endpoint**

Creates an address and control program.

The address and control program are a one to one relationship.

In the build-transaction endpoint, the receiver is the address when the action is of type control\_address, and the receiver is the control program when the action is of type control\_program, both can be used to the same effect.

#### **Parameters**

Object: account\_alias | account\_id

### Optional:

- String account\_alias, alias of account.
- String account\_id, id of account.

### **Returns**

### Object:

- String address, address of account.
- String control\_program, control program of account.

## **Example**

Create an account alias on the existing account ID.

## Request

```
curl -X POST http://localhost:9888/create-account-receiver -d '{"account_alias":
   "alice", "account_id": "OBDQARM800A02"}'
```

## Response

```
{
    "address": "ey1q5u8u4eldhjf3lvnkmyl78jj8a75neuryzlknk0",
    "control_program": "0014a70fcae7edbc931fb276d93fe3ca47efa93cf064"
}
```

# **List Addresses Endpoint**

Returns the sub list of all available addresses by account with a limit count.

### **Parameters**

- String account\_alias, alias of account.
- String account\_id, id of account.
- Integer from, the start position of first address
- Integer count, the number of returned

#### **Returns**

- Array of Object, account address array.
  - Object:
    - String account\_alias, alias of account.
    - String account\_id, id of account.
    - String address, address of account.
    - Boolean **change**, whether the account address is change.

## **Example**

List three addresses from first position by account\_id or account\_alias

## Request

```
curl -X POST http://localhost:9888/list-addresses -d '{"account_alias": "alice",
  "account_id": "086KQD75G0A02", "from": 0, "count": 3}'
```

### Response

```
"account_alias": "alice",
   "account_id": "086KQD75G0A02",
    "address": "ey1qcn9lf7nxhswratvmg6d78nq7r7yupm36qgsv55",
    "change": false
 },
    "account_alias": "alice",
    "account id": "086KQD75G0A02",
    "address": "ey1qew4h5uvt5ssrtg2alms0j77r94c30m78ucrcxy",
    "change": false
 },
    "account_alias": "alice",
    "account id": "086KQD75G0A02",
    "address": "ey1qqnp4lte7wqe0rsekevjlrdh39vkzz0c2alheue",
    "change": false
 }
]
```

# **Validate Address Endpoint**

Validate that the address is valid and report if it is local or not.

#### **Parameters**

### Object:

• string - address, address of account.

#### **Returns**

## Object:

• Boolean - valid, whether the account address is valid.

• Boolean - is\_local, whether the account address is local.

## **Example**

Request the validity of an address.

## Request

```
curl -X POST http://localhost:9888/validate-address -d '{"address":
   "ey1qcn9lf7nxhswratvmg6d78nq7r7yupm36qgsv55"}'
```

### Response

```
{
    "valid": true,
    "is_local": true,
}
```

# **Get Mining Address Endpoint**

Query the current mining address.

## **Parameters**

None.

### **Returns**

## Object:

• String - mining\_address, the current mining address being used.

## **Example**

Request the current mining address.

## Request

```
curl -X POST http://localhost:9888/get-mining-address
```

```
{
    "mining_address":"ey1qnhr65jq3q9gf8uymza8vp0ew8tfyh642wddxh6"
}
```

# **Set Mining Address Endpoint**

Set the current mining address, no matter wether the address is a local one or not. It returns an error message if the address format is incorrect.

## **Parameters**

#### Object:

• String - mining\_address, mining address to set.

#### **Returns**

## Object:

• String - mining\_address, the new mining address.

## **Example**

Update the node's mining address.

## Request

```
curl -X POST http://localhost:9888/set-mining-address -d
'{"mining_address":"ey1qnhr65jq3q9gf8uymza8vp0ew8tfyh642wddxh6"}'
```

## Response

```
{
    "mining_address":"ey1qnhr65jq3q9gf8uymza8vp0ew8tfyh642wddxh6"
}
```

# **Get Coinbase Arbitrary Endpoint**

Get coinbase arbitrary.

## **Parameters**

None.

### **Returns**

### Object:

• String - **arbitrary**, the arbitrary data append to coinbase, in hexadecimal format. (The full coinbase data for a block will be <code>0x008block\_height&arbitrary</code>.)

## Example

Query for the coinbase arbitrary.

## Request

```
curl -X POST http://localhost:9888/get-coinbase-arbitrary
```

## Response

```
{
    "arbitrary":"ff"
}
```

# **Set Coinbase Arbitrary Endpoint**

Set coinbase arbitrary.

## **Parameters**

## Object:

• String - arbitrary, the arbitrary data to be appended to coinbase, in hexadecimal format.

## **Returns**

### Object:

• String - **arbitrary**, the arbitrary data being appended to coinbase, in hexadecimal format. (The full coinbase data for a block will be <code>0x008block\_height8arbitrary</code>.)

## **Example**

Set the coinbase arbitrary.

## Request

```
curl -X POST http://localhost:9888/set-coinbase-arbitrary -d '{"arbitrary":"ff"}'
```

```
{
    "arbitrary":"ff"
}
```

# List pubkeys Endpoint

Returns the list of all available pubkeys by account.

## **Parameters**

```
Object: account_alias | account_id | public_key
```

## Optional:

- String account\_alias, alias of account.
- String account\_id, id of account.
- string public\_key, public key.

## **Returns**

## Object:

- String root\_xpub, root xpub.
- Array of Object -pubkey\_infos, public key array.
  - String pubkey, public key.
  - Object derivation\_path, derivation path for root xpub.

## **Example**

Query for the list of pubkeys by account ID or account alias.

## Request

```
curl -X POST http://localhost:9888/list-pubkeys -d '{"account_id": "0G00LLUV00A02"}'
```

# **Create Asset Endpoint**

Create an asset definition, it prepares for the issuance of an asset.

### **Parameters**

#### Object:

- String alias, name of the asset.
- Object **definition**, definition of asset.

Optional:(please pick one from the following two ways)

- Array of String root\_xpubs, xpub array.
- Integer quorum, the default value is 1, threshold of keys that must sign a transaction to spend asset units controlled by the account.

or

• String - issuance\_program, user-defined contract program.

### **Returns**

### Object:

- String id, asset id.
- String alias, name of the asset.
- String issuance\_program, control program of the issuance of asset.
- Array of Object keys, information of asset pubkey.
- String **definition**, definition of asset.
- Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled

by the account.

## **Example**

Create an asset by xpubs:

#### Request

```
curl -X POST http://localhost:9888/create-asset -d '{"alias": "GOLD", "root_xpubs":
["f6a16704f745a168642712060e6c5a69866147e21ec2447ae628f87d756bb68cc9b91405ad0a95f00409
0e864fde472f62ba97053ea109837bc89d63a64040d5"], "quorum":1}'
```

## Response

```
{
 "id": "3c1cf4c9436e3f942cb2f1d70a584f1c61df3697698dacccdc89e46f46a003d0",
 "alias": "GOLD",
 "issuance program":
"766baa209683b893483c0a5a317bf9868a8e2a09691f8aa8c1f3e2a7bb62b157e76712e05151ad696c00c
  "keys": [
      "root_xpub":
"f6a16704f745a168642712060e6c5a69866147e21ec2447ae628f87d756bb68cc9b91405ad0a95f004090
e864fde472f62ba97053ea109837bc89d63a64040d5",
      "asset pubkey":
"9683b893483c0a5a317bf9868a8e2a09691f8aa8c1f3e2a7bb62b157e76712e012bd443fa7d56a0627df0
a29dffcdc52641672a0f5cba54d104ad76ebeb8dfc3",
      "asset_derivation_path": [
        "000200000000000000000"
      ]
   }
 1,
 "quorum": 1,
  "definition": {}
}
```

Create an asset by issuance\_program:

### Request

```
curl -X POST http://localhost:9888/create-asset -d '{"alias":
    "TESTASSET","issuance_program":
    "20e9108d3ca8049800727f6a3505b3a2710dc579405dde03c250f16d9a7e1e6e78160014c5a5b563c4623
018557fb299259542b8739f6bc20163201e074b22ed7ae8470c7ba5d8a7bc95e83431a753a17465e8673af
68a82500c22741a547a6413000000007b7b51547ac1631a000000547a547aae7cac00c0",
    "definition":{"name":"TESTASSET","symbol":"TESTASSET","decimals":8,"description":{}}}'
```

### Response

```
{
    "id": "59621aa82c047bd21f73711d4a7905b7a9fbb49bc1a3fdc309b13807cc8b9094",
    "alias": "TESTASSET",
    "issuance_program":
    "20e9108d3ca8049800727f6a3505b3a2710dc579405dde03c250f16d9a7e1e6e78160014c5a5b563c4623
018557fb299259542b8739f6bc20163201e074b22ed7ae8470c7ba5d8a7bc95e83431a753a17465e8673af
68a82500c22741a547a6413000000007b7b51547ac1631a000000547a547aae7cac00c0",
    "keys": null,
    "quorum": 0,
    "definition": {
        "decimals": 8,
        "description": {},
        "name": "TESTASSET",
        "symbol": "TESTASSET",
        "symbol": "TESTASSET"
}
```

# **Get Asset Endpoint**

Query asset details by asset ID.

### **Parameters**

#### Object:

• String - id, id of asset.

#### **Returns**

### Object:

- String id, asset id.
- String alias, name of the asset.
- String issuance\_program, control program of the issuance of asset.
- Integer key\_index, index of key for xpub.
- Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.
- Array of Object xpubs, pubkey array.
- String type, type of asset.
- Integer vm\_version, version of VM.
- String raw\_definition\_byte, byte of asset definition.
- Object definition, description of asset.

## **Example**

Get asset details by asset ID.

## Request

```
curl -X POST http://localhost:9888/get-asset -d '{"id":
   "50ec80b6bc48073f6aa8fa045131a71213c33f3681203b15ddc2e4b81f1f4730"}'
```

### Response

# **List Assets Endpoint**

Returns the list of all available assets.

#### **Parameters**

None.

#### **Returns**

- Array of Object, asset array.
  - Object:
    - String id, asset id.
    - String alias, name of the asset.
    - String issuance\_program, control program of the issuance of asset.
    - Integer key\_index, index of key for xpub.

- Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.
- Array of Object xpubs, pubkey array.
- String type, type of asset.
- Integer vm\_version, version of VM.
- String raw\_definition\_byte, byte of asset definition.
- Object **definition**, description of asset.

## **Example**

List all the available assets.

### Request

```
curl -X POST http://localhost:9888/list-assets -d '{}'
```

```
[
   "alias": "EY",
   "definition": {
     "decimals": 8,
     "description": "Eiyaro Official Issue",
     "name": "EY",
     "symbol": "EY"
   },
   "issue_program": "",
   "key_index": 0,
   "quorum": 0,
   "raw_definition_byte":
"7b0a202022646563696d616c73223a20382c0a2020226465736372697074696f6e223a20224279746f6d2
04f6666696369616c204973737565222c0a2020226e616d65223a202262746d222c0a20202273796d626f6
c223a202262746d220a7d",
   "type": "internal",
   "vm version": 1,
   "xpubs": null
 },
   "alias": "SILVER",
   "definition": null,
   "id": "50ec80b6bc48073f6aa8fa045131a71213c33f3681203b15ddc2e4b81f1f4730",
   "issue_program":
"ae2029cd61d9ef31d40af7541f9a50831d6317fdb0870249d0564fcfa9a8f843589c5151ad",
   "key_index": 1,
```

```
"quorum": 1,
    "raw_definition_byte": "",
    "type": "asset",
    "vm_version": 1,
    "xpubs": [

"34b16ee500615cd325f8b84099f83c1ebecaca67977c5dc9b71ae32ceaf18207f996b0a9725b901d37926
89b2babcb60febe3b81a684d9b56b65f67f307d453d"
    ]
    }
]
```

# **Update Asset Alias Endpoint**

Update asset alias by assetID.

## **Parameters**

#### Object:

- String id, id of asset.
- String alias, new alias of asset.

### **Returns**

Nothing the asset alias is updated successfully.

## **Example**

Update asset alias.

## Request

```
curl -X POST http://localhost:9888/update-asset-alias -d
'{"id":"50ec80b6bc48073f6aa8fa045131a71213c33f3681203b15ddc2e4b81f1f4730",
"alias":"GOLD"}'
```

#### Response

No response in case operation was successful.

# **List Balances Endpoint**

Returns the list of all available accounts' balances.

#### **Parameters**

Optional:

- String account\_id, account id.
- String account\_alias, name of account.

### **Returns**

- Array of Object, balances owned by the account.
  - object:
    - String account\_id, account id.
    - String account\_alias, name of account.
    - String asset\_id, asset id.
    - String asset\_alias, name of asset.
    - Integer amount, specified asset balance of account.

## **Example**

List all the available accounts' balances.

## Request

```
curl -X POST http://localhost:9888/list-balances -d '{}'
```

### Response

List available accounts' balances by a given account\_id:

### Request

```
curl -X POST http://localhost:9888/list-balances -d '{"account_id":"0BDQ9AP100A02"}'
```

## Response

# **List Unspent Outputs Endpoint**

Returns the sub list of all available unspent outputs for all accounts in your wallet.

## **Parameters**

## Object:

### Optional:

- String id, id of unspent output.
- Boolean unconfirmed, is include unconfirmed utxo
- Boolean smart\_contract, is contract utxo
- Integer from, the start position of first utxo
- Integer count, the number of returned
- String account\_id, account id.
- String account\_alias, name of account.

### **Returns**

- Array of Object, unspent output array.
  - object:
    - String account\_id, account id.
    - String account\_alias, name of account.
    - String asset\_id, asset id.
    - String asset\_alias, name of asset.

- Integer amount, specified asset balance of account.
- String address, address of account.
- Boolean **change**, whether the account address is change.
- String id, unspent output id.
- String **program**, program of account.
- String control\_program\_index, index of program.
- String source\_id, source unspent output id.
- String source\_pos, position of source unspent output id in block.
- String valid\_height, valid height.

## Example

List all the available unspent outputs:

## Request

```
curl -X POST http://localhost:9888/list-unspent-outputs -d '{}'
```

```
Γ
 {
   "account_alias": "alice",
   "account_id": "0BKBR6VR00A06",
   "address": "ey1qv3htuvuq7qdv46ywcvvzytrwrsyq0swltfa0dm",
   "amount": 2000,
   "asset_alias": "GOLD",
   "asset_id": "1883cce6aab82cf9af8cd085a3115dd4a92cdb8e6a9152acd73d7ae4adb9030a",
   "change": false,
   "control_program_index": 2,
   "id": "58f29f0f85f7bd2a91088bcbe536dee41cd0642dfb1480d3a88589bdbfd642d9",
   "program": "0014646ebe3388f01acae88ec318222c6e1c0887c1df",
   "source id": "5988c1630c1f325e69bb92cb4b19af14286aa107311bc64b8f1a54629a33e0f4",
   "source_pos": 2,
   "valid height": 0
 },
   "account_alias": "default",
   "account id": "0BKBR2D2G0A02",
   "address": "ey1qx7ylnhszg24995d5e0nftu9e87kt9vnxcn633r",
   "amount": 624000000000,
   "asset_alias": "EY",
   "change": false,
   "control_program_index": 12,
```

```
"id": "5af9d3c9b69470983377c1fc0c9125c4ac3bfd32c8d505f2a6042aade8503bc9",
    "program": "00143789f9de0242aa52d1b4cbe695f0b93facb2b266",
    "source_id": "233d1dd49e591980f98e11f333c6c28a867e78448e272011f045131df5aa260b",
    "source_pos": 0,
    "valid_height": 12
}
```

List the unspent output matching the given id:

## Request

```
curl -X POST http://localhost:9888/list-unspent-outputs -d '{"id":
    "58f29f0f85f7bd2a91088bcbe536dee41cd0642dfb1480d3a88589bdbfd642d9"}'
```

### Response

```
{
    "account_alias": "alice",
    "account_id": "0BKBR6VR00A06",
    "address": "ey1qv3htuvug7qdv46ywcvvzytrwrsyg0swltfa0dm",
    "amount": 2000,
    "asset_alias": "60LD",
    "asset_id": "1883cce6aab82cf9af8cd085a3115dd4a92cdb8e6a9152acd73d7ae4adb9030a",
    "change": false,
    "control_program_index": 2,
    "id": "58f29f0f85f7bd2a91088bcbe536dee41cd0642dfb1480d3a88589bdbfd642d9",
    "program": "0014646ebe3388f01acae88ec318222c6e1c0887c1df",
    "source_id": "5988c1630c1f325e69bb92cb4b19af14286aa107311bc64b8f1a54629a33e0f4",
    "source_pos": 2,
    "valid_height": 0
}
```

## **Backup Wallet Endpoint**

Backs up a wallet to an image file, it contains the accounts' image, the assets' image and the keys' image.

#### **Parameters**

None.

#### **Returns**

#### Object:

• Object - account\_image, account image.

- Object asset\_image, asset image.
- Object key\_images, key image.

## **Example**

Request a backup of the node's wallet information.

## Request

```
curl -X http://localhost:9888/backup-wallet -d '{}'
```

```
"account_image": {
    "slices": [
        "account": {
          "type": "account",
          "xpubs": [
"395d6e0ac25978c3f52f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983af
b54a9a0fb3e09b6ec0d4364c4808c94383d50fb0681"
          "quorum": 1,
          "key_index": 1,
          "ID": "0CQTA3E0G0A02",
          "Alias": "def"
        },
        "contract_index": 2
   ]
  "asset image": {
    "assets": []
  "key_images": {
    "xkeys": [
        "crypto": {
          "cipher": "aes-128-ctr",
          "ciphertext":
"bf44766fec149478af9500e25ce0a6bc50bb2fa04e40465781da6ff64e9b3a4c9af3d214cd92c5a41d849
8db5f4376526740f960ff429b16e52876aec6860e1d",
          "cipherparams": {
            "iv": "1b0fc61ae4dacb15f0f77d2b4ba67635"
          },
          "kdf": "scrypt",
```

```
"kdfparams": {
            "dklen": 32,
            "n": 4096.
            "p": 6,
            "r": 8,
            "salt": "e133b1e7caae771ff1ab34b14824d6e27ef399f2b7ded4ad3500f080ede4a1dd"
          },
          "mac": "bc6bf411fb63e61a17bc15b94f29cf0d5a0f084c328955da1f7e2b26757cfc23"
        },
        "id": "1f40be59-7400-4fdc-b46b-15009f65363a",
        "type": "eiyaro_kd",
        "version": 1.
        "alias": "default",
        "xpub":
"c4ec9bfd5df19d175e17ff7fed89193c37a4a64e1c0928387da01387ca76c3bfd99390e3373ec4d438522
cc2d4644214cd2ec3b00965f7a1fa3546809583191c"
      },
      {
        "crypto": {
          "cipher": "aes-128-ctr",
          "ciphertext":
"f0887c8603cbbafc0a66d5b45f71488e089708c7dea4342625a67858a49d6d08c79cd3f1800627e3c8b46
68e8df34fcf0be9df5d9d4503acff05373976c312a9",
          "cipherparams": {
            "iv": "c111b46f9104f49f2c40aedb827e53b5"
          },
          "kdf": "scrypt",
          "kdfparams": {
            "dklen": 32,
            "n": 4096.
            "p": 6,
            "r": 8,
            "salt": "d9ef588b258b111dea1d99a4e4c5a4f968ab69072176bb95b111922e3bbea9e6"
          "mac": "336f5fee643776e139f05ebe5e4f209d992ff97e16b906105fadac9e86133554"
        },
        "id": "611d407c-9e97-4297-a02a-13cd68e47983",
        "type": "eiyaro_kd",
        "version": 1,
        "alias": "def",
        "xpub":
"395d6e0ac25978c3f52f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983af
b54a9a0fb3e09b6ec0d4364c4808c94383d50fb0681"
      }
    1
 }
}
```

## **Restore Wallet Endpoint**

Restores the wallet by image file.

#### **Parameters**

## Object:

- Object account\_image, account image.
- Object asset\_image, asset image.
- Object **key\_images**, key image.

### **Returns**

None if restore of the wallet was successful.

## **Example**

Restore a node's wallet via the image file.

## Request

```
curl -X POST http://localhost:9888/restore-wallet -d
'{"account_image":{"slices":[{"account":{"type":"account","xpubs":["395d6e0ac25978c3f5
2f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983afb54a9a0fb3e09b6ec0d
4364c4808c94383d50fb0681"], "quorum":1, "key index":1, "ID": "OCQTA3EOG0A02", "Alias": "def"
},"contract_index":2}]},"asset_image":{"assets":[]},"key_images":{"xkeys":[{"crypto":{
"cipher": "aes-128-
ctr", "ciphertext": "bf44766fec149478af9500e25ce0a6bc50bb2fa04e40465781da6ff64e9b3a4c9af
3d214cd92c5a41d8498db5f4376526740f960ff429b16e52876aec6860e1d","cipherparams":{"iv":"1
b0fc61ae4dacb15f0f77d2b4ba67635"}, "kdf": "scrypt", "kdfparams": { "dklen": 32, "n": 4096, "p":
6,"r":8,"salt":"e133b1e7caae771ff1ab34b14824d6e27ef399f2b7ded4ad3500f080ede4a1dd"},"ma
c":"bc6bf411fb63e61a17bc15b94f29cf0d5a0f084c328955da1f7e2b26757cfc23"},"id":"1f40be59-
7400-4fdc-b46b-
15009f65363a", "type": "eiyaro_kd", "version": 1, "alias": "default", "xpub": "c4ec9bfd5df19d1
75e17ff7fed89193c37a4a64e1c0928387da01387ca76c3bfd99390e3373ec4d438522cc2d4644214cd2ec
3b00965f7a1fa3546809583191c"},{"crypto":{"cipher":"aes-128-
ctr", "ciphertext": "f0887c8603cbbafc0a66d5b45f71488e089708c7dea4342625a67858a49d6d08c79
cd3f1800627e3c8b4668e8df34fcf0be9df5d9d4503acff05373976c312a9", "cipherparams": {"iv": "c
111b46f9104f49f2c40aedb827e53b5"}, "kdf": "scrypt", "kdfparams": { "dklen": 32, "n": 4096, "p":
6, "r":8, "salt": "d9ef588b258b111dea1d99a4e4c5a4f968ab69072176bb95b111922e3bbea9e6"}, "ma
c":"336f5fee643776e139f05ebe5e4f209d992ff97e16b906105fadac9e86133554"},"id":"611d407c-
9e97-4297-a02a-
13cd68e47983", "type": "eiyaro_kd", "version": 1, "alias": "def", "xpub": "395d6e0ac25978c3f52
f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983afb54a9a0fb3e09b6ec0d4
364c4808c94383d50fb0681"}]}}'
```

### Response

No response in case operation was successful.

# **Rescan Wallet Endpoint**

Trigger a rescan of the block information on the wallet.

## **Parameters**

None.

## **Returns**

Nothing if operation was a success.

## **Example**

Request a rescan of the block information on the node.

## Request

```
curl -X POST http://localhost:9888/rescan-wallet -d '{}'
```

### Response

No response in case operation was successful.

# **Recovery Wallet Endpoint**

Recovers a wallet and it's accounts from root xpubs.

All accounts and balances of bip44 multi-account hierarchy for deterministic wallets can be restored via root xpubs.

### **Parameters**

## Object:

• Object - xpubs, root XPubs.

## **Returns**

Status of recovery wallet operation.

## **Example**

Request a wallet's recovery via xpubs.

### Request

```
curl -X POST http://localhost:9888/recovery-wallet -d '{
   "xpubs":["c536a2c11fafd8278e02e9393dcbf5aa420eb51a1761a7e5da7f2b9b37969b52a8f8e2b692e7
   dcaf79dfa0d1e28c63eb9fda42942f20feaa8a71b383d9a4668c"]}'
```

## Response

```
{
    "status": "success"
}
```

# **Wallet Info Endpoint**

Returns the wallet's information.

### **Parameters**

None.

#### **Returns**

## Object:

- Integer best\_block\_height, current block height.
- Integer wallet\_height, current block height for wallet.

## **Example**

Request the node's wallet information.

## Request

```
curl -X POST http://localhost:9888/wallet-info -d '{}'
```

```
{
  "best_block_height": 150,
  "wallet_height": 150
}
```

## Sign Message Endpoint

Sign a message with the key password(decode encrypted private key) of an address.

#### **Parameters**

### Object:

- String address, address for account.
- String message, message for signature by address xpub.
- String password, password of account.

### **Returns**

## Object:

- String derived\_xpub, derived xpub.
- String signature, signature of message.

## **Example**

Request the signature of a message by an address' private key.

## Request

```
curl -X POST http://localhost:9888/sign-message -d
'{"address":"ey1qx2qgvvjz734ur8x5lpfdtlau74aaa5djs0a5jn", "message":"this is a test
message", "password":"123456"}'
```

### Response

```
{
    "signature":
    "74da3d6572233736e3a439166719244dab57dd0047f8751b1efa2da26eeab251d915c1211dcad77e8b013
267b86d96e91ae67ff0be520ef4ec326e911410b609",
    "derived_xpub":
    "6ff8c3d1321ce39a3c3550f57ba70b67dcbcef821e9b85f6150edb7f2f3f91009e67f3075e6e76ed5f657
    ee4b1a5f4749b7a8c74c8e7e6a1b0e5918ebd5df4d0"
}
```

# **Decode Program Endpoint**

Decode a program.

#### **Parameters**

## Object:

• String - program, program for account.

#### **Returns**

## Object:

• String - instructions, instructions and data for program.

## **Example**

Request to have a program decoded into it's instructions.

### Request

```
curl -X POST http://localhost:9888/decode-program -d
'{"program":"0014a86c83ee12e6d790fb388345cc2e2b87056a0773"}'
```

## Response

```
{
    "instructions": "DUP \nHASH160 \nDATA_20 a86c83ee12e6d790fb388345cc2e2b87056a0773
    \nEQUALVERIFY \nTXSIGHASH \nSWAP \nCHECKSIG \n"
}
```

# **Get Transaction Endpoint**

Query the account related transaction by transaction ID.

## **Parameters**

### Object:

• String - tx\_id, transaction id, hash of transaction.

### **Returns**

#### Object:

- String tx\_id, transaction id, hash of the transaction.
- Integer block\_time, the unix timestamp for when the regust was responsed.
- String block\_hash, hash of the block where this transaction was in.
- Integer block\_height, block height where this transaction was in.

- Integer block\_index, position of the transaction in the block.
- Integer block\_transactions\_count, transactions count where this transaction was in the block.
- Boolean **status\_fail**, whether the state of the transaction request has failed.
- Integer size, size of transaction.
- Array of Object inputs, object of inputs for the transaction.
  - String type, the type of input action, available option include: 'spend', 'issue', 'coinbase'.
  - String asset\_id, asset id.
  - String asset\_alias, name of asset.
  - Object asset\_definition, definition of asset(json object).
  - Integer amount, amount of asset.
  - Object issuance\_program, issuance program, it only exist when type is 'issue'.
  - Object control\_program, control program of account, it only exist when type is 'spend'.
  - String address, address of account, it only exist when type is 'spend'.
  - String spent\_output\_id, the front of outputID to be spent in this input, it only exist when type is 'spend'.
  - String account\_id, account id.
  - String account\_alias, name of account.
  - Object arbitrary, arbitrary infomation can be set by miner, it only exist when type is 'coinbase'.
  - String input\_id, hash of input action.
  - Array of String witness arguments, witness arguments.
- Array of Object **outputs**, object of outputs for the transaction.
  - String type, the type of output action, available option include: 'retire', 'control'.
  - String id, outputid related to utxo.
  - Integer position, position of outputs.
  - String asset\_id, asset id.
  - String asset\_alias, name of asset.
  - Object asset\_definition, definition of asset(json object).
  - Integer amount, amount of asset.
  - String account\_id, account id.
  - String account\_alias, name of account.
  - Object control\_program, control program of account.
  - String address, address of account.

### **Example**

Retrieve a transaction by it ID.

#### Request

```
curl -X POST http://localhost:9888/get-transaction -d '{"tx_id":
"15b8d66e227feff47b3de0f278934ea16d6c828371ec6c13c8f84713dd11703b"}'
```

```
"block hash": "1fa9bb389cf974a9b37b63ca38c0cf3453c30f394b9e8ae7f04f2d1b52c329b4",
 "block_height": 530,
 "block_index": 1,
 "block_time": 1528772056,
 "block transactions count": 2,
 "inputs": [
     "account_alias": "default",
     "account id": "OER7MEFGG0A02",
     "address": "sy1q4pkg8msjumtep7ecsdzuct3tsuzk5pmnm3p8nr",
     "amount": 41250000000,
     "asset alias": "EY",
     "asset definition": {
       "decimals": 8,
       "description": "Eiyaro Official Issue",
       "name": "EY",
       "symbol": "EY"
     },
     "control_program": "0014a86c83ee12e6d790fb388345cc2e2b87056a0773",
     "input id": "02702fe116e052aaf4473b034ed40720bfb3aba77df64625311ca3947d367336",
     "spent_output_id":
"002025b727148d04197cc7b9cf7eafd9986041f07641ca82dc0a1d9e227b52f6",
     "type": "spend",
     "witness_arguments": [
"944a35f256a49712f95319743671152b12360df859deedbfa9f37f9fe6a81b5ff2dce36d9ee6fc19e8be8
b1dd5915719d4341f66f5569aad26283859d3c1bc05",
       "bedfd27f48007c59555da672b6207ac997add62241894ff181bb9d8cba3b7e25"
     1
   }
 ],
 "outputs": [
     "account alias": "default",
     "account_id": "0ER7MEFGG0A02",
     "address": "sy1qmt6jxrr8etssufr8qp98emyaly3lknxyndh5cj",
```

```
"amount": 29450000000,
     "asset_alias": "EY",
     "asset definition": {
      "decimals": 8,
      "description": "Eiyaro Official Issue",
      "name": "EY",
      "symbol": "EY"
     },
     "control_program": "0014daf5230c67cae10e2467004a7cec9df923fb4cc4",
     "id": "35a46dd36eb27b1ffdfdefbe5366175b6325e8f56e5bc3dd2aa1a47197e26e6c",
     "position": 0,
     "type": "control"
   },
   {
     "account_alias": "alice",
     "account_id": "0ER70AK400A02",
     "address": "sy1gxe4jwhkekgnxkezu7xutu5ggnnpmyc8ppg98me",
     "amount": 11700000000,
     "asset_alias": "EY",
     "asset definition": {
      "decimals": 8,
      "description": "Eiyaro Official Issue",
      "name": "EY",
      "symbol": "EY"
     },
     "control_program": "0014366b275ed9b2266b645cf1b8be51009cc3b260e1",
     "id": "ae791bbde0cc5b370e28a505933b85082d67be8db81bdcc56b8202f200b883e7",
     "position": 1,
     "type": "control"
   }
 ],
 "size": 332,
 "status_fail": false,
 "tx_id": "15b8d66e227feff47b3de0f278934ea16d6c828371ec6c13c8f84713dd11703b"
}
```

# **List Transactions Endpoint**

Returns the sub list of all the account related transactions.

#### **Parameters**

Object:

Optional:

• String - id, transaction id, hash of transaction.

- String account\_id, id of account.
- Boolean detail, flag of detail transactions, default false (only return transaction summary)
- Boolean **unconfirmed**, flag of unconfirmed transactions(query result include all confirmed and unconfirmed transactions), default false.
- Integer from, the start position of first transaction
- Integer count, the number of returned

#### **Returns**

Array of Object, transaction array.

#### Optional:

- Object:(summary transaction)
  - String tx\_id, transaction id, hash of the transaction.
  - Integer block\_time, the unix timestamp for when the requst was responsed.
  - Array of Object inputs, object of summary inputs for the transaction.
    - String type, the type of input action, available option include: 'spend', 'issue', 'coinbase'.
    - String asset id, asset id.
    - String asset\_alias, name of asset.
    - Integer amount, amount of asset.
    - String account\_id, account id.
    - String account\_alias, name of account.
    - Object arbitrary, arbitrary infomation can be set by miner, it only exist when type is 'coinbase'.
  - Array of Object **outputs**, object of summary outputs for the transaction.
    - String type, the type of output action, available option include: 'retire', 'control'.
    - String asset\_id, asset id.
    - String asset\_alias, name of asset.
    - Integer amount, amount of asset.
    - String account\_id, account id.
    - String account\_alias, name of account.
    - Object arbitrary, arbitrary infomation can be set by miner, it only exist when type is input 'coinbase' (this place is empty).
- Object:(detail transaction)
  - String tx\_id, transaction id, hash of the transaction.
  - Integer block\_time, the unix timestamp for when the regust was responsed.
  - String block\_hash, hash of the block where this transaction was in.

- Integer block\_height, block height where this transaction was in.
- Integer block\_index, position of the transaction in the block.
- Integer block\_transactions\_count, transactions count where this transaction was in the block.
- Boolean **status\_fail**, whether the state of the transaction request has failed.
- Integer size, size of transaction.
- Array of Object inputs, object of inputs for the transaction.
  - String type, the type of input action, available option include: 'spend', 'issue', 'coinbase'.
  - String asset\_id, asset id.
  - String asset\_alias, name of asset.
  - Object asset\_definition, definition of asset(json object).
  - Integer amount, amount of asset.
  - Object issuance\_program, issuance program, it only exist when type is 'issue'.
  - Object control\_program, control program of account, it only exist when type is 'spend'.
  - String address, address of account, it only exist when type is 'spend'.
  - String spent\_output\_id, the front of outputID to be spent in this input, it only exist when type is 'spend'.
  - String account\_id, account id.
  - String account alias, name of account.
  - Object arbitrary, arbitrary infomation can be set by miner, it only exist when type is 'coinbase'.
  - String input\_id, hash of input action.
  - Array of String witness\_arguments, witness arguments.
- Array of Object outputs, object of outputs for the transaction.
  - String type, the type of output action, available option include: 'retire', 'control'.
  - String id, outputid related to utxo.
  - Integer position, position of outputs.
  - String asset\_id, asset id.
  - String asset\_alias, name of asset.
  - Object asset\_definition, definition of asset(json object).
  - Integer amount, amount of asset.
  - String account\_id, account id.
  - String account\_alias, name of account.
  - Object control\_program, control program of account.
  - String address, address of account.

## **Example**

List all the available transactions:

#### Request

```
curl -X POST http://localhost:9888/list-transactions -d '{}'
```

```
"block_time": 1521771059,
  "inputs": [
   {
     "arbitrary": "06",
     "asset id":
"type": "coinbase"
  ],
  "outputs": [
     "account alias": "default",
     "account_id": "0BMHBOBVG0A02",
     "amount": 41250000000,
     "asset alias": "EY",
     "asset_id":
"type": "control"
    }
  ],
  "tx id": "c631a8de401913a512c338bcf4a61cb2de6cede12a7385d9d11637eaa6578f33"
 },
  "block_time": 1521770515,
  "inputs": [
     "account_alias": "default",
     "account_id": "0BMHBOBVG0A02",
     "amount": 41250000000,
     "asset alias": "EY",
     "asset_id":
"type": "spend"
    }
  ],
  "outputs": [
    {
```

```
"account_alias": "default",
     "account_id": "0BMHBOBVG0A02",
     "amount": 34649500000,
     "asset alias": "EY",
     "asset_id":
"type": "control"
    },
     "account_alias": "alice",
     "account_id": "0BMHDI1P00A04",
     "amount": 6600000000,
     "asset_alias": "EY",
     "asset id":
"type": "control"
    }
  1,
  "tx_id": "1151ce5c7b32b8755b5e48109ec7ed956fb1783eaea9558bf5a2ad957825e4b7"
 }
1
```

List the transaction matching the given tx\_id with detail:

#### Request

```
curl -X POST http://localhost:9888/list-transactions -d '{"id":
   "7e9f9b999381da936e3cae48b5bac2b9bc28bb56c6c862be6c110448f7e2f6b3","detail": true}'
```

```
{
    "block_hash": "1b2d0efa025256603e9330273d37f5a900cd3dfb213e015ac53cf645e2315a6d",
    "block_height": 72,
    "block index": 1,
    "block_time": 1528528584,
    "block_transactions_count": 2,
    "inputs": [
     {
        "account_alias": "default",
        "account id": "0ER7MEFGG0A02",
        "address": "sy1q4pkq8msjumtep7ecsdzuct3tsuzk5pmnm3p8nr",
        "amount": 41250000000,
        "asset_alias": "EY",
        "asset definition": {
          "decimals": 8,
          "description": "Eiyaro Official Issue",
```

```
"name": "EY",
         "symbol": "EY"
       },
       "asset id":
"control program": "0014a86c83ee12e6d790fb388345cc2e2b87056a0773",
       "input id":
"adcef046c3f61fb6ba0d6a7107122f6e31cd4b49c7a3b05aa3391e5b0529d69a",
       "spent output id":
"0072a2c1cee30a7c7b7b006ca08a48c2b479bc81c0ec6463fe4865ef37626ab6",
       "type": "spend",
       "witness arguments": [
"944a35f256a49712f95319743671152b12360df859deedbfa9f37f9fe6a81b5ff2dce36d9ee6fc19e8be8
b1dd5915719d4341f66f5569aad26283859d3c1bc05",
         "bedfd27f48007c59555da672b6207ac997add62241894ff181bb9d8cba3b7e25"
     }
   ],
   "outputs": [
       "account_alias": "default",
       "account_id": "0ER7MEFGG0A02",
       "address": "sy1qskj096x5w7ejcmk746q3djmv84dpxts62dewvd",
       "amount": 34649500000,
       "asset alias": "EY",
       "asset definition": {
         "decimals": 8,
         "description": "Eivaro Official Issue",
         "name": "EY",
         "symbol": "EY"
       },
       "asset id":
"control_program": "001485a4f2e8d477b32c6edeae9116cb6c3d5a132e1a",
       "id": "b08c9bfc816064ca33da8b569998229774fc9552da7d4f16870b2c5a8f645b3b",
       "position": 0,
       "type": "control"
     },
       "account_alias": "alice",
       "account_id": "0ER70AK400A02",
       "address": "sy1qxe4jwhkekqnxkezu7xutu5qqnnpmyc8ppq98me",
       "amount": 6600000000,
       "asset alias": "EY",
       "asset definition": {
         "decimals": 8,
         "description": "Eiyaro Official Issue",
         "name": "EY",
         "symbol": "EY"
       },
```

List the transaction matching the given account\_id and unconfirmed flag(unconfirmed transaction's block\_height and block\_index is default for zero):

#### Request

```
curl -X POST http://localhost:9888/list-transactions -d '{"account_id":
   "0F1MQVI500A02", "unconfirmed": true, "detail": true}'
```

```
{
   "block_height": 0,
   "block_index": 0,
   "block_time": 1529032899,
   "inputs": [
      "account_alias": "default",
      "account id": "0F1L5Q3V00A02",
      "address": "sy1q167n04pj8mfqzv3wjq8num3yrltdykemgrr45j",
      "amount": 41250000000,
      "asset_alias": "EY",
      "asset_definition": {
       "decimals": 8,
       "description": "Eiyaro Official Issue",
       "name": "EY",
       "symbol": "EY"
      },
      "asset id":
"control_program": "0014febd37d4323ed201322e900f3e6e241fd6d25b3b",
      "input id":
"192ac93bad580cd53626b7f11c17e6eca64f66d1947add13a5620b78f666693e",
```

```
"spent output id":
"00570443cbac4f68638ff565e8b04db2062800b9e23b7701913ddf6b190dbe65",
       "type": "spend",
       "witness arguments": [
"512a2b60324433de96cd4274bd298b4b109a29c4d9d68582952065dfd0d7c00663cbc49e8e42fdef740a7
e1b78622ee31abf2e9b0d5609755f275afd6751590b",
         "bedfd27f48007c59555da672b6207ac997add62241894ff181bb9d8cba3b7e25"
       1
     },
       "account_alias": "default",
       "account_id": "0F1L5Q3V00A02",
       "address": "sy1ql67n04pj8mfqzv3wjq8num3yrltdykemgrr45j",
       "amount": 41250000000,
       "asset_alias": "EY",
       "asset definition": {
         "decimals": 8.
         "description": "Eiyaro Official Issue",
         "name": "EY",
         "symbol": "EY"
       },
       "asset id":
"control_program": "0014febd37d4323ed201322e900f3e6e241fd6d25b3b",
       "input id":
"83713c02b52eb18f782de67b322c43571d83793e082596b6410e2d3a8a41387d",
       "spent_output_id":
"01df9011ca0bed4bb9b95dc84da4c5103fed06ca28c03d92d34ee3d61b945288",
       "type": "spend",
       "witness_arguments": [
"512a2b60324433de96cd4274bd298b4b109a29c4d9d68582952065dfd0d7c00663cbc49e8e42fdef740a7
e1b78622ee31abf2e9b0d5609755f275afd6751590b",
         "bedfd27f48007c59555da672b6207ac997add62241894ff181bb9d8cba3b7e25"
       1
     }
   ],
   "outputs": [
       "account_alias": "default",
       "account_id": "0F1L5Q3V00A02",
       "address": "sy1qdcfprk7wjy6flavkzhcjh3dxyrwlm935trrs5m",
       "amount": 41249100000,
       "asset alias": "EY",
       "asset_definition": {
         "decimals": 8,
         "description": "Eiyaro Official Issue",
         "name": "EY",
         "symbol": "EY"
       },
```

```
"asset id":
"control_program": "00146e1211dbce91349ff59615f12bc5a620ddfd9634",
      "id": "09fabb1a2bac44c45054175453e23e81a764557147523d8df70d8a190cf2eb17",
      "position": 0,
      "type": "control"
     },
      "account alias": "default",
      "account id": "0F1L5Q3V00A02",
      "address": "sy1qt92xx2f4ys63dyhy58jle87nttcf37zftweklh",
      "amount": 39150000000.
      "asset_alias": "EY",
      "asset definition": {
        "decimals": 8,
        "description": "Eiyaro Official Issue",
        "name": "EY",
        "symbol": "EY"
      },
      "asset id":
"control_program": "0014595463293524351692e4a1e5fc9fd35af098f849",
      "id": "6efae48663e872193e8a672eb85b8bbf29d8aee98e42816340fa0b2340cc355d",
      "position": 1,
      "type": "control"
     },
      "account_alias": "alice",
      "account id": "0F1MQVI500A02",
      "address": "sy1qum6ly8aq9u9k7xrkuck9pq64xq67qw40khnnxu",
      "amount": 2100000000,
      "asset_alias": "EY",
      "asset definition": {
        "decimals": 8,
        "description": "Eiyaro Official Issue",
        "name": "EY",
        "symbol": "EY"
      },
      "asset id":
"control_program": "0014e6f5f21fa02f0b6f1876e62c5083553235e43aaf",
      "id": "aca1ecc59d8bcf548e4f5afb8a97e38f0eb56e1387b17400fd3c693c074a703d",
       "position": 2,
      "type": "control"
     }
   ],
   "size": 1194,
   "status fail": false,
   "tx id": "9c28a6a2a039ed5bdebe81eea44cdb22a951c472bc25cb1e8188ae423a98f251"
 },
 {
```

```
"block hash": "474b9c28b225fba02278ad3b097d561bf8f5c562ff2a548226fc10fc1d75b7ed",
   "block_height": 255,
   "block index": 1,
   "block time": 1528963126,
   "block_transactions_count": 2,
   "inputs": [
     {
       "account_alias": "alice",
       "account id": "OF1MQVI500A02",
       "address": "sy1qum6ly8aq9u9k7xrkuck9pq64xq67gw40khnnxu",
       "amount": 1000000000,
       "asset alias": "EY",
       "asset_definition": {
         "decimals": 8,
         "description": "Eiyaro Official Issue",
         "name": "EY",
         "symbol": "EY"
       },
       "asset_id":
"control program": "0014e6f5f21fa02f0b6f1876e62c5083553235e43aaf",
       "input id":
"0705bb7f4aea4ef869f22ab5e4a26e051b066e41290c1b74734a82aee8c03dfc",
       "spent output id":
"767649aafdfe2c22d46d641a5b74d934e2590330f7280b0fc55b978812a99a58",
       "type": "spend",
       "witness arguments": [
"a4d4f09a04371516d37e1d27f92c9cb41e4b1e7f62762cf23ed3904a9dfd2d794195862fffd00bf7ac373
e5891c8d2eb660dc5ff9c040ec4e01f973bbfd31c23",
         "2ecb3f55bfde18ec95a93c456dd3d44cb55da83148a68cbc059ea04e7b12d3bc"
       1
     },
       "account_alias": "alice",
       "account_id": "0F1MQVI500A02",
       "address": "sy1gum6ly8ag9u9k7xrkuck9pg64xg67gw40khnnxu",
       "amount": 100000000000,
       "asset alias": "GOLD",
       "asset definition": {
         "decimals": 8,
         "description": {},
         "name": "",
         "svmbol": ""
       },
       "asset id":
"71deb74415f16a1f7bffb04c61d427bb1f93adfba257ffba2673f102d602e78f",
       "control_program": "0014e6f5f21fa02f0b6f1876e62c5083553235e43aaf",
       "input id":
"35764d80217d0d2a3c1b000dc2dd47cf0c8bc152c842ce6e3a7783140087d3d6",
       "spent output id":
```

```
"5d7a88851f5696ded279cb9bc380e050024c555258ea7851dfdedc2797b0d820",
       "type": "spend",
       "witness arguments": [
"a4d4f09a04371516d37e1d27f92c9cb41e4b1e7f62762cf23ed3904a9dfd2d794195862fffd00bf7ac373
e5891c8d2eb660dc5ff9c040ec4e01f973bbfd31c23",
         "2ecb3f55bfde18ec95a93c456dd3d44cb55da83148a68cbc059ea04e7b12d3bc"
       ]
     }
   ],
   "outputs": [
       "account_alias": "alice",
       "account_id": "0F1MQVI500A02",
       "address": "sy1q39sztlh4jq5nknstn2udvvpm6v5ugussx2djc0",
       "amount": 9980000000,
       "asset_alias": "EY",
       "asset definition": {
         "decimals": 8,
         "description": "Eiyaro Official Issue",
         "name": "EY",
         "symbol": "EY"
       },
       "asset id":
"control program": "0014896025fef590293b4e0b9ab8d6303bd329c47210",
       "id": "2b44969d28d79544006e792411d6cd1d245f9af20419f6138494b4b5aac2a72e",
       "position": 0,
       "type": "control"
     },
       "account_alias": "alice",
       "account id": "OF1MQVI500A02",
       "address": "sy1q258yd0gvatje4pn0qc8z9w8cdv45j9tvhfpjh8",
       "amount": 99999999991,
       "asset alias": "GOLD",
       "asset definition": {
         "decimals": 8,
         "description": {},
         "name": "",
         "symbol": ""
       },
       "asset id":
"71deb74415f16a1f7bffb04c61d427bb1f93adfba257ffba2673f102d602e78f",
       "control program": "0014550e46bd0ceae59a866f060e22b8f86b2b49156c",
       "id": "54be1bc876d1deccb9845acec79eabf62d7eacd5935e337850233657914d0f9d",
       "position": 1,
       "type": "control"
     },
       "amount": 99,
```

```
"asset_alias": "GOLD",
        "asset_definition": {
          "decimals": 8,
          "description": {},
          "name": "",
          "svmbol": ""
        },
        "asset_id":
"71deb74415f16a1f7bffb04c61d427bb1f93adfba257ffba2673f102d602e78f",
        "control_program":
"20e864761d8181103b6476435a805cba97361df9a05c40fae644c27f69ce045d3c16001464d928e181900
d382fa33def66534c7323c778c4015820684d6683d014abb4e019878b50fbbb547bcbf9c4739498d8eeef5
65d37f9a82f741a547a6413000000007b7b51547ac1631a000000547a547aae7cac00c0",
        "id": "347553923bb550c236a703e46600d53f25161e3eb74ee3183884d398e5d894b0",
        "position": 2,
        "type": "control"
   ],
    "size": 691,
    "status_fail": false,
    "tx id": "383f8636842301b2fe292c5b8b2f540c6ed7867ba5751680b2e77827c300e41e"
 }
]
```

# **Network Endpoints**

These endpoints are available regardless of the wallet being disabled or not.