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"}'
```

```
{
    "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"}'
```

Response

```
{
   "alias": "jack",
   "xpub":
"c7bcb65febd31c6d900bc84c386d95c3d5b047090628d9bf5c51a848945b6986e99ff70388018a7681fa3
7a240dbd8df39a994c86f9314a61e75feb33563ca72",
   "file": "/home/yang/.eiyaro/keystore/UTC--2024-3-10T07-08-51.815030323Z--46ee932e-
88d3-4680-a5c1-dd9e63918fcc"
}
```

List Keys Endpoint

Returns the list of all available keys.

Parameters

None.

Returns

- Array of Object, keys owned by the client.
 - o 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
```

Response

```
Γ
    "alias": "alice",
    "xpub":
"a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
fa625ad61b3253375ea744c9442dd5551613ba50aea",
    "file": "/Path/To/Library/Eiyaro/keystore/UTC--2024-03-21T02-35-15.035935116Z--
4f2b8bd7-0576-4b82-8941-6cc6da05efe3"
 },
    "alias": "bob",
    "xpub":
"d30a810e88532f73816b7b5007d413cbd21e526ae9159023e5262511893adc1526b8eacd691b27c080201
d7d79336a4f3d2cb4c167d997821cad445765916254",
    "file": "/Path/To/Library/Eiyaro/keystore/UTC--2018-03-22T06-30-27.609315219Z--
0e34293c-8856-4f5f-b934-37456a3820fa"
 }
]
```

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"}'
```

Response

```
{
   "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.
 - 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"}'
```

Response

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.



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

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}'
```

```
[
    "account_alias": "alice",
    "account_id": "086KQD7560A02",
    "address": "ey1qcn9lf7nxhswratvmg6d78nq7r7yupm36qgsv55",
    "change": false
},
    {
        "account_alias": "alice",
        "account_id": "086KQD7560A02",
        "address": "ey1qew4h5uvt5ssrtg2alms0j77r94c30m78ucrcxy",
        "change": false
},
    {
        "account_alias": "alice",
        "account_id": "086KQD7560A02",
        "address": "ey1qgnp4lte7wge0rsekevjlrdh39vkzz0c2alheue",
        "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
```

Response

```
{
    "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_height8arbitrary</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"}'
```

Response

```
{
    "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"}'
```

Response

```
"pubkey_infos": [
      "derivation_path": [
       "0101000000000000000",
        "010000000000000000"
      "pubkey": "b7730319feac582056379548360da5c08258e248e5c29de08a97a6614df1425d"
    },
    {
      "derivation_path": [
        "0101000000000000000",
        "020000000000000000"
      1,
      "pubkey": "5044a0d6113faaf4cb2550f63a820ab579a2af6134e503b76378490d5fe75af4"
   },
      "derivation_path": [
        "0101000000000000000",
        "030000000000000000"
      "pubkey": "ff5c28ce257b25c2a6e172ded490a708a8e654253836d92eb0a68b81ce63bea3"
    }
 ],
  "root_xpub":
"94a909319eac179f7694b99b8367b9c02b4414b95961e2e3a5bd887e0616af05a7c5e4448df92cd6cdfd8
2e57cd7aefc1ee0a7fd0d6a2194b5e5faf82556bedc"
}
```

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}'
```

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"
}
}
```

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"}'
```

```
{
   "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"
]
}
```

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"
   ]
 }
1
```

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.
 - o 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 '{}'
```

Response

```
"account_alias": "alice",
   "account_id": "0BKBR6VR00A06",
   "address": "ey1qv3htuvug7qdv46ywcvvzytrwrsyg0swltfa0dm",
   "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"}'
```

```
{
    "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 '{}'
```

```
"395d6e0ac25978c3f52f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983af
b54a9a0fb3e09b6ec0d4364c4808c94383d50fb0681"
          1,
          "quorum": 1,
          "key_index": 1,
          "ID": "0CQTA3E0G0A02",
          "Alias": "def"
        },
        "contract_index": 2
     }
    1
 },
  "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",
"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"
      }
    ]
 }
}
```

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": "0CQTA3E0G0A02", "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.

Network Endpoints

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