

Ledger API Service:

This ledger Api is a source of truth for transactions happening between wallets

Here in the api we are supporting Entity Creation

Entity could be a Person or a Business

You need to provide Name and Type of Entity: PERSON/BUSINESS

Each Entity will have accounts:

And Each Account will have multiple assets/wallets of different types: CURRENCY, STOCKS, CRYPTO, BONDS etc

The swagger of ledger-api looks like:

commands-controller		^
PUT	/posting/state/update	▼
PUT	/account/state/update	▼
POST	/wallet/moveAsset	▼
POST	/wallet/moveAsset/async	▼
POST	/entity/create	▼
ledger-balance-controller		^
GET	/ledger/api/v1/balance/wallets/{walletId}/latest-balance	▼
GET	/ledger/api/v1/balance/wallets/{walletId}/historical-balance	▼

We have 2 sections :

Commands: Command will have Create/Update operations in the service

Queries: Queries will have read operations in the service

```
Entity Creation:
Request :
{
  "name": "string",
  "type": "PERSONAL",
  "accounts": [
    {
      "name": "string",
      "status": "OPEN",
      "wallets": [
        {
          "balance": 0,
          "assetType": "FIAT_CURRENCY",
          "identifier": "string"
        }
      ]
    }
  ]
}
```

```
]
}
]
}
```

```
Response:
{
  "status": "string",
  "description": "string",
  "createdAt": "2024-03-17T10:41:43.596Z"
}
```

accountUpdate: To change state of account from open to closed and vice-versa

Request:

```
{
  "accountId": Long,
  "accountState": OPEN
}
```

Response:

```
{
  "status": "string"
}
```

postingUpdate: To change stateOfPosting in a wallet from CLEARED to REJECTED or PENDING

Request:

```
{
  "transactionId": Long,
  "postingState": OPEN
}
```

Response:

```
{
  "status": "string"
}
```

walletMovement:

Wallet Movement request provided source and destination , type of wallet and amount. It takes array as an argument and maximum 10 requests are supported Synchronously, if more then 10 request please use the Asynchronous API

Request:

```
[
  {
    "sourceWalletId": 0,
    "destinationWalletId": 0,
    "assetType": "FIAT_CURRENCY",
    "assetIdentifier": "string",
    "amount": 0
  }
]
```

Response:

```
[
  {
    "requestId": "string",
    "sourceWalletId": Long,
    "destinationWalletId": Long,
    "status": "string",
    "description": "string",
    "createdAt": "2024-03-17T10:50:31.631Z"
  }
]
```

For Async Api : we can provide any number of Wallet movement requests , it should process and provide response on payment-created-topic which the client can subscribe

Request and response are same as Synchronous API

Balance change broadcast on balance-change-topic

Wallet change broadcast on wallet-movement-topic