

# The VyFi API

## The VyFi Factory

The interaction with the VyFi platforms happens via the blockchain, using a "factory". You basically send your request in the form of a transaction, to the following factory address (this one is on preprod, NOT production):

```
addr_test1qpjavykfl5n4t47xklzyuccevgple0e4c7mke2m6cd0z0fwy0ppq8p292lgrquq7hx75c4wpvz0h8cjp69mp7men3nw8s46zete
```

The VyFi platform will ingest the transaction along with the accompanying LP json payload, and it will create the liquidity pool and token pair.

Here's what that factory looks like on CardanoScan:

<https://preprod.cardanoscan.io/address/0065d612c9fd2755d7c6b7c44e63196203fcbf35c7b76cab7ac35e27a5c4784070a8aafa060e03d737a98ab82c13ee7c483a2ec3ede6719b8f>

## Creating a liquidity pool / token pair

In order to create a token pair and a liquidity pool, we have to create a transaction that carries the definition of our liquidity pool with it. We can inspect how other liquidity pools were created:

```
curl -o lp.json  
'https://api.vyfi.io/lp?networkId=1&v2=true&tokenAUnit=lovelace&tokenBUnit=804f5544c1962a40546827cab750a88404dc7108c0f588b72964754f56594649'
```

**Note:** this is version v1 of the VyFi platform. They are working on launching VyFi v3 and all of this might change.

## Transaction Payload

```
[  
  {  
    "highVolume":false,  
    "processHold":false,  
    "unitsPair":"lovelace/804f5544c1962a40546827cab750a88404dc7108c0f588b72964754f56594649",  
  
    "poolValidatorUtxoAddress":"addr1z9es6px68rlmwatqwg6qxwqf3szyz0n4lm0m2e5j38nu0062a6yhtrq8a4cxg2trrtzddev7v974nafzmx4xaegv2ngqky7khv",  
    "isPabPool":true,  
    "lpPolicyId-assetId":"36babde255ba721444a5c2bf7ea85b0ccbe5452088573d355681e1d9-567946695f4144412f565946495f4c50",  
    "json":
```

```

{"bAsset":{"tokenName":"VYFI","currencySymbol":"804f5544c1962a40546827cab750a88404dc7108c0f588b72964754f"},\
"mainNFT":{"tokenName":"","currencySymbol":"c285d6d7e61163b7f7a918f28e450e37d55dc684450d87b96750d8db"},\
"operatorToken":{"tokenName":"VyFi_Credential","currencySymbol":"4d07e0ceae00e6c53598cea00a53c54a94c6b6aa071482244cc0adb5"},\
"lpTokenName":{"unTokenName":"VyFi_ADA/VYFI_LP"},"aAsset":{"tokenName":"","currencySymbol":"","feesSettings":{"barFee":10,\
"processFee":1900000,\
"liqFee":20},\
"stakeKey":"4aee89758c07ed706429631ac4d6e59e617d59f522d9aa6ee50c54d0"},"pair":"ADA/VYFI","isLive":true,\
"orderValidatorUtxoAddress":"addr1wy6z9sfat2t7drl8yhfw9h9ktx90rk3xs8g479zrrh6cq5m2x",\
"tokenAQuantity":532369659562,\
"tokenAQuantityBarFee":172563835,\
"tokenBQuantity":6565639472852,\
"tokenBQuantityBarFee":0,\
"lpQuantity":1805072170870
}
]

```

## Liquidity Pool Payload Format

Here's the actual liquidity pool definition that you see encoded above, but expanded for readability:

```

{
  "bAsset": {
    "tokenName": "VYFI",
    "currencySymbol": "804f5544c1962a40546827cab750a88404dc7108c0f588b72964754f"
  },
  "mainNFT": {
    "tokenName": "", "currencySymbol": "c285d6d7e61163b7f7a918f28e450e37d55dc684450d87b96750d8db"
  },
  "operatorToken": {
    "tokenName": "VyFi_Credential",
    "currencySymbol": "4d07e0ceae00e6c53598cea00a53c54a94c6b6aa071482244cc0adb5"
  },
  "lpTokenName": {
    "unTokenName": "VyFi_ADA/VYFI_LP"
  },
  "aAsset": {
    "tokenName": "",
    "currencySymbol": ""
  },
  "feesSettings": {

```

```
"barFee":10,  
"processFee":1900000,  
"liqFee":20  
},  
"stakeKey":"4aee89758c07ed706429631ac4d6e59e617d59f522d9aa6ee50c54d0"  
}
```

---

Revision #6

Created 3 April 2025 17:20:18 by Aric Fedida

Updated 3 April 2025 18:06:12 by Aric Fedida