Composite Client

Getting Started

CompositeClient simplifies the transactions by transforming human readable parameters to chain-specific parameters.

For example, Placing an order with ValidatorClient requires parameters such as quantums and subticks, which are calculated based on ClobPair settings.

CompositeClient would take regular human readable parameters such as price and size, make the neccesory calculations and conversions, and call ValidatorClient with the correct quantums and subticks for you.

Installation

TypeScript Python pnpm install @dydxprotocol/v4-client-is

Initializing the Client

Creating a LocalWallet

```
TypeScript Python import { BECH32_PREFIX , LocalWallet , } from '@dydxprotocol/v4-client-js' ; const mnemonic = 'YOUR MNEMONIC HERE' ; const wallet = await
```

LocalWallet .fromMnemonic (mnemonic ,

BECH32_PREFIX);

Placing Orders

Placing an Order

```
TypeScript Python import { OrderExecution , OrderSide , OrderTimeInForce , OrderType , } from
'@dydxprotocol/v4-client-js'; const
subaccount
new
SubaccountClient (wallet,
0); const
clientId
123; // set to a number, can be used by the client to identify the order const
market
"BTC-USD"; // perpertual market id const
type
OrderType . LIMIT ; // order type const
side
OrderSide . BUY ; // side of the order const
timeInForce
OrderTimeInForce . IOC ; // UX TimeInForce const
execution
OrderExecution . DEFAULT ; const
price
30_000; // price of 30,000; const
size
0.1; // subticks are calculated by the price of the order const
postOnly
```

false; // If true, order is post only const
reduceOnly
=
false; // if true, the order will only reduce the position size const
triggerPrice
=
null; // required for conditional orders
const
tx
await
client .placeOrder (subaccount , market , type , side , price , size , clientId , timeInForce , 0 , execution , postOnly reduceOnly , triggerPrice);
Replacing an Order
For more details on order replacements, see Replacing an Order in the validator client section.
Canceling an Order
TypeScript Python / order is an Order object from the Indexer/ const
tx
=
await

 $client . cancel Order \ (\ subaccount\ ,\ order\ . client Id\ ,\ order\ . orderFlags\ ,\ order\ . clobPairId\ ,\ order\ . goodTilBlock\ ,\ order\ . goodTilBlockTime\); \\ Last \ updated\ onMay\ 30,\ 2024\ \underline{Validator\ Client\ Indexer\ API}$