Indexer Client

Getting Started

Installation

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

Initializing the Client

```
TypeScript Python import { IndexerClient , Network } from

"@dydxprotocol/v4-client-js" ;

/** // For the deployment by DYDX token holders, use below:

import { IndexerConfig, ValidatorConfig } from "@dydxprotocol/v4-client-js";

const NETWORK: Network = new Network( 'mainnet', new IndexerConfig( 'https://indexer.dydx.trade', 'wss://indexer.dydx.trade', ), new ValidatorConfig( 'https://dydx-ops-rpc.kingnodes.com', // or other node URL 'dydx-mainnet-1', { CHAINTOKEN_DENOM: 'adydx', CHAINTOKEN_DECIMALS: 18, USDC_DENOM: 'ibc/8E27BA2D5493AF5636760E354E46004562C46AB7EC0CC4C1CA14E9E20E2545B5', USDC_GAS_DENOM: 'uusdc', USDC_DECIMALS: 6, }, ), ); */ const

NETWORK

=

Network .testnet ();

const

client

=

new
```

Indexer Status

IndexerClient (NETWORK .indexerConfig);

Get Block Height and Block Time parsed by Indexer

TypeScript Python const
response
=
await
client . utility .getHeight (); const
height
=
response .height; const
heightTime
=
response .time;

Get Server Time

TypeScript Python const

```
response
await
client . utility .getTime (); const
timelso
response .iso; const
timeEpoch
response .epoch;
Markets
List Perpetual Markets
TypeScript Python const
response
await
client . markets .getPerpetualMarkets (); Params and Response : Seendexer API
List Sparklines
TypeScript Python const
response
await
client . markets .getPerpetualMarketSparklines (); Params and Response : Seendexer API
Get Perpetual Market
TypeScript Python // ticker is the market ticket, such as "BTC-USD" const
response
await
client . markets .getPerpetualMarket (ticker); Params and Response : Seendexer API
Get Orderbook
TypeScript Python // ticker is the market ticket, such as "BTC-USD" const
response
await
client . markets .getPerpetualMarketOrderbook (ticker); const
asks
```

```
response .asks; const
bids
response .bids; Params and Response : Sedndexer API
Get Trades
TypeScript Python // ticker is the market ticket, such as "BTC-USD" const
response
await
client . markets .getPerpetualMarketTrades (ticker); const
trades
response .trades; Params and Response : Sedndexer API
Get Historical Funding
TypeScript Python // ticker is the market ticket, such as "BTC-USD" const
response
await
client . markets .getPerpetualMarketHistoricalFunding (ticker); const
historicalFunding
response .historicalFunding; Params and Response : Sedndexer API
Get Candles
TypeScript Python // ticker is the market ticket, such as "BTC-USD", resolution is the resolution of the candles, such as
"1MIN" const
response
await
client . markets .getPerpetualMarketCandles (ticket , resolution); const
candles
response .candles; Params and Response : Sedndexer API
```

Subaccount

Get Address Subaccounts

TypeScript Python // address is the wallet address on dYdX chain const

response

```
=
await
client . account .getSubaccounts (address); const
subaccounts
=
response .subaccounts; Params and Response : Sedndexer API
Get Subaccount
TypeScript Python // address is the wallet address on dYdX chain
```

TypeScript Python // address is the wallet address on dYdX chain, subaccountNumber is the subaccount number const

response

await

 $client\ .\ account\ .getSubaccount\ (address\ ,\ subaccountNumber);\ const$

subaccounts

response .subaccount; Params and Response : Sedndexer API

Get Asset Positions

TypeScript Python // address is the wallet address on dYdX chain, subaccountNumber is the subaccount number const response

await

 $client\ .\ account\ .getSubaccount AssetPositions\ (address\ ,\ subaccount Number);\ const$

positions

response .positions; Params and Response : Sedndexer API

Get Perpetual Positions

TypeScript Python // address is the wallet address on dYdX chain, subaccountNumber is the subaccount number const response

await

 $client\ .\ account\ .get Subaccount Perpetual Positions\ (address\ ,\ subaccount Number);\ const$

positions

response .positions; Params and Response : Sedndexer API

Get Orders

TypeScript Python // address is the wallet address on dYdX chain, subaccountNumber is the subaccount number const response

```
await
client . account .getSubaccountOrders (address , subaccountNumber); const
orders
= response; Params and Response : Sedndexer API
Get Order
TypeScript Python // orderId is the ID of the order const
response
await
client . account .getOrder (orderId); const
order
= response; Params and Response : Sedndexer API
Get Fills
TypeScript Python // address is the wallet address on dYdX chain, subaccountNumber is the subaccount number const
response
await
client . account .getSubaccountFills (address , subaccountNumber); const
fills
response .fills; Params and Response : Sedndexer API
Get Transfers
TypeScript Python // address is the wallet address on dYdX chain, subaccountNumber is the subaccount number const
response
await
client . account .getSubaccountTransfers (address , subaccountNumber); const
transfers
response .transfers; Params and Response : Sedndexer API
Get Historical PNL
TypeScript Python // address is the wallet address on dYdX chain, subaccountNumber is the subaccount number const
response
```

await

 ${\it client.account.getSubaccountHistoricalPNLs~(address~,~subaccountNumber);~const~historicalPnl}$

=

response .historicalPnl; Params and Response : Sedndexer API

Last updated onFebruary 29, 2024 Indexer Websocket Socket Client