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# **SDK** overview

This SDK provides high-level functionality to work with Fusion mode on the EVM-compatible chains.

## Real world example

```
import { FusionSDK, NetworkEnum } from "@1inch/fusion-sdk";

async function main() {
  const sdk = new FusionSDK({
    url: "https://api.1inch.dev/fusion",
    network: NetworkEnum.ETHEREUM,
    authKey: "YOU-API-KEY",
  });

const orders = await sdk.getActiveOrders({ page: 1, limit: 2 });

main();
```

### Creation

Constructor arguments: params: FusionSDKConfigParams

```
interface HttpProviderConnector {
    get<T>(url: string): Promise<T>;

    post<T>(url: string, data: unknown): Promise<T>;
}

interface BlockchainProviderConnector {
    signTypedData(
        walletAddress: string,
            typedData: EIP712TypedData,
    ): Promise<string>;

    ethCall(contractAddress: string, callData: string): Promise<string>;
}

type FusionSDKConfigParams = {
```

```
url: string;
network: NetworkEnum;
blockchainProvider?: BlockchainProviderConnector;
httpProvider?: HttpProviderConnector; // by default we are using axios
};
```

Example with custom httpProvider:

```
import { api } from "my-api-lib";

class CustomHttpProvider implements HttpProviderConnector {
  get<T>(url: string): Promise<T> {
    return api.get(url);
  }

  post<T>(url: string, data: unknown): Promise<T> {
    return api.post(url, data);
  }
}
```

## Methods

#### getActiveOrders

Description: used to get the list of active orders Arguments:

• [0] PaginationParams

Example:

```
import { FusionSDK, NetworkEnum } from "@1inch/fusion-sdk";
const sdk = new FusionSDK({
   url: "https://api.1inch.dev/fusion",
   network: NetworkEnum.ETHEREUM,
   authKey: "YOU-API-KEY",
});
const orders = await sdk.getActiveOrders({ page: 1, limit: 2 });
```

## getOrdersByMaker

Description: used to get orders by maker

Arguments:

• [0] params: PaginationParams & {address: string}

Example:

```
import { FusionSDK, NetworkEnum } from "@1inch/fusion-sdk";
const sdk = new FusionSDK({
```

```
url: "https://api.1inch.dev/fusion",
network: NetworkEnum.ETHEREUM,
authKey: "YOU-API-KEY",
});

const orders = await sdk.getOrdersByMaker({
  page: 1,
  limit: 2,
  address: "Oxfa80cd9b3becc0b4403b0f421384724f2810775f",
});
```

#### getQuote

Description: Get quote details based on input data

Arguments:

• [0] params: QuoteParams

Example:

```
import { FusionSDK, NetworkEnum, QuoteParams } from "@1inch/fusion-sdk";
const sdk = new FusionSDK({
   url: "https://api.1inch.dev/fusion",
   network: NetworkEnum.ETHEREUM,
   authKey: "YOU-API-KEY",
});

const params = {
   fromTokenAddress: "0x6b175474e89094c44da98b954eedeac495271d0f",
   toTokenAddress: "0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2",
   amount: "10000000000000000000000",
};

const quote = await sdk.getQuote(params);
```

## placeOrder

Description: used to create a fusion order

Arguments:

• [0] params: OrderParams

Example:

```
const makerPrivateKey = "0x123....";
const makerAddress = "0x123....";
const nodeUrl = "....";
const blockchainProvider = new PrivateKeyProviderConnector(
```

```
makerPrivateKey,
  new Web3(nodeUrl),
);
const sdk = new FusionSDK({
  url: "https://api.1inch.dev/fusion",
  network: 1,
 blockchainProvider,
  authKey: "YOU-API-KEY",
});
sdk
  .placeOrder({
    fromTokenAddress: "0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2", // WETH
    toTokenAddress: "0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48", // USDC
    amount: "50000000000000000", // 0.05 ETH
   walletAddress: makerAddress,
   // fee is an optional field
   fee: {
     takingFeeBps: 100, // 1% as we use bps format, 1% is equal to 100bps
     },
 })
  .then(console.log);
```

## **Types**

## **PaginationParams**

```
type PaginationParams = {
  page?: number; // default is 1
  limit?: number; // default is 2, min is 1, max is 500
};
```

## QuoteParams

```
type QuoteParams = {
  fromTokenAddress: string;
  toTokenAddress: string;
  amount: string;
  permit?: string; // a permit (EIP-2612) call data, user approval sign
  takingFeeBps?: number; // 100 == 1%
};
```

#### **OrderParams**

```
enum PresetEnum {
  fast = "fast",
  medium = "medium",
  slow = "slow",
```

```
type OrderParams = {
    fromTokenAddress: string;
    toTokenAddress: string;
    amount: string;
    walletAddress: string;
    permit?: string; // a permit (EIP-2612) call data, user approval sign
    receiver?: string; // address
    preset?: PresetEnum;
    nonce?: OrderNonce | string | number; // allows to batch cancel orders. by default: not used
    fee?: TakingFeeInfo;
};

export type TakingFeeInfo = {
    takingFeeBps: number; // 100 == 1%
    takingFeeReceiver: string;
};
```

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