

How to swap with Fusion Mode

Example:

Typescript

```
import {
  FusionSDK,
  NetworkEnum,
  OrderStatus,
  PrivateKeyProviderConnector,
  Web3Like,
} from "@1inch/fusion-sdk";
import { computeAddress, formatUnits, JsonRpcProvider } from "ethers";

const PRIVATE_KEY = "YOUR_PRIVATE_KEY";
const NODE_URL = "YOUR_WEB3_NODE_URL";
const DEV_PORTAL_API_TOKEN = "YOUR_DEV_PORTAL_API_TOKEN";

const ethersRpcProvider = new JsonRpcProvider(NODE_URL);

const ethersProviderConnector: Web3Like = {
  eth: {
    call(transactionConfig): Promise<string> {
      return ethersRpcProvider.call(transactionConfig);
    },
  },
  extend(): void {},
};

const connector = new PrivateKeyProviderConnector(
  PRIVATE_KEY,
  ethersProviderConnector,
);

const sdk = new FusionSDK({
  url: "https://api.1inch.dev/fusion",
  network: NetworkEnum.BINANCE,
  blockchainProvider: connector,
  authKey: DEV_PORTAL_API_TOKEN,
});

async function main() {
```

```

const params = {
  fromTokenAddress: "0x8ac76a51cc950d9822d68b83fe1ad97b32cd580d", // USDC
  toTokenAddress: "0xe000000000000000000000000000000000", // BNB
  amount: "1000000000000000000", // 10 USDC
  walletAddress: computeAddress(PRIVATE_KEY),
  source: "sdk-test",
};

```

```

const quote = await sdk.getQuote(params);

```

```

const dstTokenDecimals = 18;
console.log(
  "Auction start amount",
  formatUnits(
    quote.presets[quote.recommendedPreset].auctionStartAmount,
    dstTokenDecimals,
  ),
);
console.log(
  "Auction end amount",
  formatUnits(quote.presets[quote.recommendedPreset].auctionEndAmount),
  dstTokenDecimals,
);

```

```

const preparedOrder = await sdk.createOrder(params);

```

```

const info = await sdk.submitOrder(
  preparedOrder.order,
  preparedOrder.quoteId,
);

```

```

console.log("OrderHash", info.orderHash);

```

```

const start = Date.now();

```

```

while (true) {
  try {
    const data = await sdk.getOrderStatus(info.orderHash);

    if (data.status === OrderStatus.Filled) {
      console.log("fills", data.fills);
      break;
    }

    if (data.status === OrderStatus.Expired) {
      console.log("Order Expired");
      break;
    }

    if (data.status === OrderStatus.Cancelled) {
      console.log("Order Cancelled");
      break;
    }
  } catch (e) {
    console.log(e);
  }
}

```

```
    console.log("Order executed for", (Date.now() - start) / 1000, "sec");
  }

  main();
```

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