

External Swap Router

External Router Migration

TheCrocSwapRouter contract exposes an ABI compatible swap() function that works with the upgraded swap callpath. This option will add approximately 60,000 gas to swap calls compared to direct swap calls.

The contract is deployed at

Ethereum:0x533E164ded63f4c55E83E1f409BDf2BaC5278035

Scroll:0xfB5f26851E03449A0403Ca945eBB4201415fd1fc

Solidity Example

...

```
Copy // Ethereum addressrouter=0x533E164ded63f4c55E83E1f409BDf2BaC5278035; CrocSwapRouter(router).swap(
base, quote, poolIdx, isBuy, inBaseQty, qty, tip, limitPrice, minOut, settleFlags);
```

```
//Scroll addressrouter=0xfB5f26851E03449A0403Ca945eBB4201415fd1fc; CrocSwapRouter(router).swap( base, quote,
poolIdx, isBuy, inBaseQty, qty, tip, limitPrice, minOut, settleFlags);
```

...

Javascript Example

The below example uses an Ethers provider to send a swap to the router contract:

...

```
Copy const{ethers}=require('ethers');
```

```
constprovider=newethers.providers.JsonRpcProvider(...);
```

```
constrouterAbi=...// See below
```

```
constetherRouterAddr="0x533E164ded63f4c55E83E1f409BDf2BaC5278035"
```

```
constscrollRouterAddr="0xfB5f26851E03449A0403Ca945eBB4201415fd1fc"
```

```
constcontract=newethers.Contract(etherRouterAddr,routerAbi,provider);
```

```
contract.swap( baseAddress, quoteAddress, 420, isBuy, inBaseQty, qty, 0, limitPrice, minOut, 0);
```

...

ABI

For an ABI to call swap on the contract, you can use the below JSON

...

```
Copy [ { "inputs": [ { "internalType": "address", "name": "base", "type": "address" }, { "internalType": "address", "name": "quote",
"type": "address" }, { "internalType": "uint256", "name": "poolIdx", "type": "uint256" }, { "internalType": "bool", "name": "isBuy",
"type": "bool" }, { "internalType": "bool", "name": "inBaseQty", "type": "bool" }, { "internalType": "uint128", "name": "qty",
"type": "uint128" }, { "internalType": "uint16", "name": "tip", "type": "uint16" }, { "internalType": "uint128", "name": "limitPrice",
"type": "uint128" }, { "internalType": "uint128", "name": "minOut", "type": "uint128" }, { "internalType": "uint8",
"name": "reserveFlags", "type": "uint8" } ], "name": "swap", "outputs": [ { "internalType": "int128", "name": "baseFlow",
"type": "int128" }, { "internalType": "int128", "name": "quoteFlow", "type": "int128" } ], "stateMutability": "payable",
"type": "function" }, ]
```

...

Notes

Users will need to approve any tokens being sent to theCrocSwapRouter contract address

Swapping to/from dex balance surplus collateral is not available through this contract.

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