

# Introduction

The 1inch Swap API v6.1, Pathfinder, is a cutting-edge discovery and routing algorithm, which offers asset exchanges at the best rates on the market. Pathfinder finds the most efficient paths for a token swap, able to split between different protocols and even different market depths within one protocol in the shortest possible time. Pathfinder advantages include:

- **Maximized returns.** Multiple swap paths are aggregated to ensure optimal trading rates, maximizing value on every transaction.
- **Enhanced liquidity efficiency.** By fragmenting trade volumes and dynamically routing them across multiple pools, Pathfinder optimally utilizes liquidity sources, extracting the best rates from concentrated liquidity.
- **Expanded market access.** Pathfinder is deeply integrated with diverse liquidity pools, enabling strategic distribution of trade volume to capture the most favorable rates.
- **Optimized execution speed.** Smart routing accelerates path discovery and trade execution, reducing latency without compromising efficiency.
- **Reduced gas costs.** By consolidating routes and minimizing redundant transactions, gas fees are significantly reduced, making each swap more cost-efficient.

## Supported networks

- [Ethereum Mainnet](#)
- [Arbitrum](#)
- [Avalanche](#)
- [Base](#)
- [BNB Chain](#)
- [Gnosis](#)
- [Klaytn](#)
- [Optimism](#)
- [Polygon](#)
- [zkSync Era](#)

# Public contracts

## 1inch Token

Name	Chain	Address
Governance staking	Ethereum Mainnet	<a href="#">0x9A0C8Ff858d273f57072D714bca7411D717501D7</a>
Staking farm	Ethereum Mainnet	<a href="#">0x1A87c0F9CCA2f0926A155640e8958a8A6B0260bE</a>
Voting power curve	Ethereum Mainnet	<a href="#">0x722E140f1222D404916B8d0A8Fd2F6233d446905</a>
1inch Token	Ethereum Mainnet	<a href="#">0x111111111117dC0aa78b770fA6A738034120C302</a>
1inch Token	Polygon	<a href="#">0x9c2C5fd7b07E95EE044DDeba0E97a665F142394f</a>
1inch Token	Arbitrum	<a href="#">0x6314C31A7a1652cE482cfe247E9CB7c3f4BB9aF</a>
1inch Token	Optimism	<a href="#">0xAd42D013ac31486B73b6b059e748172994736426</a>
1inch Token	Base	<a href="#">0xc5fecC3a29Fb57B5024eEc8a2239d4621e111CBE</a>
1inch Token	Gnosis	<a href="#">0x7f7440C5098462f833E123B44B8A03E1d9785BAb</a>
1inch Token	BNB Chain	<a href="#">0x111111111117dC0aa78b770fA6A738034120C302</a>

## Aggregation Router v6

Name	Chain	Address
Aggregation Router v6	Arbitrum, Avalanche, BSC, Base, Gnosis, Goerli, Klaytn, Linea, Ethereum Mainnet, Optimism, Polygon, Sepolia	<a href="#">0x111111125421cA6dc452d289314280a0f8842A65</a>
Aggregation Router v6	zkSync	<a href="#">0x6fd4383cB451173D5f9304F041C7BCBf27d561fF</a>
Ether, MultiCall, UniV3Helper	Ethereum Mainnet	<a href="#">0x77340c866Ef1Da13407D61120010F136Fad5f91C</a>
Ether, MultiCall, UniV3Helper	BNB Chain	<a href="#">0xb97cD69145e5A9357b2Acd6AF6C5076380f17Afb</a>
Ether, MultiCall, UniV3Helper	Polygon	<a href="#">0xa218543cc21ee9388Fa1E509F950FD127Ca82155</a>
Ether, MultiCall, UniV3Helper	Arbitrum	<a href="#">0x4FCC6106220304691906Dd95C993F87984953a20</a>
Ether, MultiCall, UniV3Helper	Optimism	<a href="#">0x93131EFfE501d5721737C32576238F619548edda</a>
Ether, MultiCall, UniV3Helper	Avalanche	<a href="#">0xC4A8B7e29E3C8ec560cd4945c1cF3461a85a148d</a>
Ether, MultiCall, UniV3Helper	Gnosis	<a href="#">0xE295aD71242373C37C5FdA7B57F26f9eA1088AFe</a>

Name	Chain	Address
Ether, MultiCall, UniV3Helper	Base	0x138CE40d675F9a23E4D6127A8600308Cf7A93381
Ether, MultiCall, UniV3Helper	zkSync	0x3eEbC6FD768b58ED9FC84b87FF6481D735afE751
Ether, MultiCall, UniV3Helper	Linea	0x750c1b699552cAf908D67F5cCFd20A261305328c
Maverick2TickHelper	BNB Chain	0x9fD3CC33Bf4F28459DA6383adA34dc048cD304D4
Maverick2TickHelper	Base	0x75277E9da52E3Bbf365c25652f88d4370679055F
Maverick2TickHelper	Ethereum Mainnet	0x1666EF2e729daB497a6798a4221D0e041111DcD4
Maverick2TickHelper	zkSync	0x995bA9E88902cEF5C802c3A60A659699fB5a1fd0
Curve Llama Helper	Ethereum Mainnet	0xb52C1ce530ad6F651bc01C234f11F91517970aC9
Kyber Helper	Ethereum Mainnet	0xDc49A6e76f017175bA46e5038A4DF6606d961FF3
Kyber Helper	Avalanche	0xCC54299Fc291B261B2bF5552E7F0E5d2F8613E8C
Kyber Helper	Polygon	0xE93293A6088d3a8abDDf62e6CA1A085Cec97D06F
Kyber Helper	Optimism	0x3Ce81621e674Db129033548CbB9FF31AEDCc1BF6
Solidly V3 Helper	Ethereum Mainnet	0xA3aF94A72f94ab3537cebf66eEf99B8705F0ACDD
Solidly V3 Helper	Arbitrum	0x7F9Ac310a71e0447f9425E6095Eb5815E5D0c228
Solidly V3 Helper	Base	0x8606321723D9cA7db708A8b12DAd0A8a83f2F3bD
Solidly V3 Helper	Optimism	0x715C0357F8F29FB7a71acDcaeFdde2B964824B23
Trader Joe v2 Helper	Ethereum Mainnet	0xB5d6422B5237228C8A9891F9DD94BCaBB523D247
Trader Joe v2 Helper	BNB Chain	0xF3970201ed42c9c579Ab146B573457C5629b78cF
Trader Joe v2 Helper	Arbitrum	0x2eeA44E40930b1984F42078E836c659A12301E40
Trader Joe v2 Helper	Avalanche	0xaFeA5601b0A894451955355E79AD3026515e500d
Trader Joe Helper	Avalanche	0x94Bc2a1C732BcAd7343B25af48385Fe76E08734f
Algebra Helper	Arbitrum	0xC603A00595D5F8ea8d93C5c338c00Ff29dBA6258
Algebra Helper	Base	0x59a0A6d73e6a5224871f45E6d845ce1574063ADe
Ramses Helper	Avalanche	0xbAF9A5d4b0052359326A6CDAb54BABAAa3a3A9643

## Aggregation Router v6, Crosschain, Fusion v2

Name	Chain	Address
KYC Token	Arbitrum, Avalanche, BSC, Base, Gnosis, Klaytn, Linea, Ethereum Mainnet, Optimism, Polygon	0xACCe550000159e70908C0499a1119D04e7039C28
KYC Token	zkSync	0xC2c4fE863EC835D7DdbFE91Fe33cf1C7Df45Fa7C

## Crosschain

Name	Chain	Address
Crosschain Escrow Factory	Arbitrum, Avalanche, BSC, Base, Gnosis, Linea, Ethereum Mainnet, Optimism, Polygon	0xa7bCb4EAc8964306F9e3764f67Db6A7af6DdF99A
Crosschain Escrow Factory	zkSync	0x584aEaB186D81dbB52a8a14820c573480c3d4773
Crosschain Whitelist	Ethereum Mainnet	0xBe89346fE1cE1367f3d80C8522209A86511B1201
ERC20True Token	Arbitrum, Avalanche, BSC, Base, Gnosis, Klaytn, Linea, Ethereum Mainnet, Optimism, Polygon	0xDA0000d4000015A526378bB6faFc650Cea5966F8
ERC20True Token	zkSync	0xD66097C27eB8dEe404bAC235737932260EdC6f3b

## Fusion v1

Name	Chain	Address
Settlement	BNB Chain	0x1D0aE300Eec4093cee4367c00b228D10a5C7aC63

## Fusion v1, Fusion v2

Name	Chain	Address
Priority Fee Limiter	Ethereum Mainnet	0x5E92d4021e49f9A2967b4EA1d20213B3A1c7c912
Whitelist v2	Ethereum Mainnet	0xF55684BC536487394B423e70567413faB8e45E26
Resolver Information	Ethereum Mainnet	0xBF4543819ECede56220bcB1e8C1BBa9Ef290a58a
Delegate Resolver	Ethereum Mainnet	0xAccfAc2339e16DC80c50d2fa81b5c2B049B4f947

## Fusion v2

Name	Chain	Address
Fee Bank	Arbitrum, Avalanche, BSC, Base, Gnosis, Klaytn, Linea, Ethereum Mainnet, Optimism, Polygon	0x798Ef9b5E2dd6CfDDB1e6a3e09bB6E4531492dB1

Name	Chain	Address
Fee Bank	zkSync	0x0B5060B10f266343BeE501404f4607a29E32b520
Settlement Extension (simple settlement)	Arbitrum, Avalanche, BSC, Base, Gnosis, Klaytn, Linea, Optimism, Polygon	0xfb2809A5314473E1165f6B58018E20ed8F07B840
Settlement Extension	Ethereum Mainnet	0xfb2809A5314473E1165f6B58018E20ed8F07B840
Settlement Extension	Ethereum Mainnet	0x3BfB9B75da98b5fCfCBc2D0DB0BC956d75c3084f
Settlement Extension (simple settlement)	zkSync	0x0302b42c86540e636E438395C6344ED88c55B70e

## Offchain oracle

Name	Chain	Address
Offchain Oracle	Arbitrum, Avalanche, BSC, Base, Gnosis, Klaytn, Linea, Ethereum Mainnet, Optimism, Polygon	0x00000000000D6FFc74A8feb35aF5827bf57f6786
Offchain Oracle	zkSync	0x739B4e7a3ad8210B6315F75b24cfe0D3226f6945

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