

Contract interaction

Deployed contracts

Name	Contract	Address
Staking v2	st1inch	0x9A0C8Ff858d273f57072D714bca7411D717501D7
Staking farm	StakingFarmingPod	0x1A87c0F9CCA2f0926A155640e8958a8A6B0260bE
Settlement	Settlement	0xA88800CD213dA5Ae406ce248380802BD53b47647
Delegation pod	PowerPod	0xAaccfAc2339e16DC80c50d2fa81b5c2B049B4f947
Resolver information	ResolverMetadata	0xBF4543819ECede56220bcB1e8C1BBa9Ef290a58a
Whitelist	WhitelistRegistry	0xF55684BC536487394B423e70567413faB8e45E26
Whitelist info	WhitelistHelper	0xF779bdde38C39138Dcaf1514B8a6b8a6C165642D

Stake 1inch

Repository	limit-order-settlement
Contract	st1inch.sol
Contract address	0x9A0C8Ff858d273f57072D714bca7411D717501D7
Methods	Staking

• deposit(uint256 amount, uint256 duration) • depositWithPermit(uint256 amount, uint256 duration, bytes calldata permit) • depositFor(address account, uint256 amount, uint256 duration) • depositForWithPermit(address account, uint256 amount, uint256 duration, bytes calldata permit) || Description | Stakes 1inch to get staking power according to the lock time |

```
/**Deposits 100 1inch with 1 day lock*  
await st1inch.deposit(ether("100"), time.duration.days("1"));
```

2. Register as a Resolver

2.1 Register delegation pod

Repository	limit-order-settlement
Contract	PowerPod.sol
Contract address	0xAccfAc2339e16DC80c50d2fa81b5c2B049B4f947
Methods	addPod(address pod)
Description	Register pod usage for the tx sender. Needed for

• Resolvers to enable resolver's and delegated staking power usage for whitelisting • Stakers to enable unicorn power delegation |

```
*/ register `delegation` pod usage a `resolver`*  
await st1inch.connect(resolver).addPod(delegation.address);
```

2.2. Register delegation share token

Repository	limit-order-settlement
Contract	PowerPod.sol
Contract address	0xAccfAc2339e16DC80c50d2fa81b5c2B049B4f947
Methods	register(string memory name, string memory symbol, uint256 maxUserFarms)
Description	Creates a resolvers share token to count delegated staked power shares and accrue rewards

```
*/ Register resolver's token with name 'resolver token share' and symbol 'RTS'*  
await delegation.register('resolver token share', 'RTS');
```

2.4. Delegate resolver's staking power to self

Repository	limit-order-settlement
Contract	PowerPod.sol
Contract address	0xAccfAc2339e16DC80c50d2fa81b5c2B049B4f947
Methods	delegate(address delegatee)
Description	delegate(address delegatee)

```
*/ Delegates all staking power to self*  
await delegation.connect(resolver).delegate(resolver.address);
```

2.5. Whitelist resolver

Repository	limit-order-settlement
Contract	WhitelistRegistry.sol
Contract address	0xF55684BC536487394B423e70567413faB8e45E26
Methods	register()
Description	Checks if sender is eligible to be whitelisted and put it into the whitelist sorted by staking power descending

```

// Try to put the sender to the whitelist*
await whitelist.connect(resolver).register();

```

3. FeeBank

Repository	limit-order-settlement
Contract	FeeBank.sol
Contract address	0xa0844e046a5B7Db55Bb8DcdFfbF0bBF9c6dc6546
Methods	• deposit(uint256 amount)

• depositFor(address account, uint256 amount) • depositWithPermit(uint256 amount, bytes calldata permit) • depositForWithPermit | | Description | Deposits 1inch for fee deduction when filling orders |

```

// Deposit fees to fee bank*
await feeBank.connect(resolver).deposit(amount)

```

4. Resolving

```

struct Order {
    uint256 salt;
    address makerAsset;
    address takerAsset;
    address maker;
    address receiver;
    address allowedSender; // equals to Zero address on public orders
    uint256 makingAmount;
    uint256 takingAmount;
    uint256 offsets;
    // bytes makerAssetData;
    // bytes takerAssetData;
    // bytes getMakingAmount; // this.staticcall(abi.encodePacked(bytes, swapTakerAmount)) => (swapMakerA
mount)
    // bytes getTakingAmount; // this.staticcall(abi.encodePacked(bytes, swapMakerAmount)) => (swapTakerA
mount)
    // bytes predicate; // this.staticcall(bytes) => (bool)
    // bytes permit; // On first fill: permit.1.call(abi.encodePacked(permit.selector, permit.2))

```

```
        // bytes preInteraction;
        // bytes postInteraction;
        bytes interactions; // concat(makerAssetData, takerAssetData, getMakingAmount, getTakingAmount, predicate, permit, preIntercation, postInteraction)
    }
```

Repository	limit-order-settlement
Contract	Settlement.sol
Contract address	0xA88800CD213dA5Ae406ce248380802BD53b47647
Methods	.settleOrders(bytes calldata data)
Description	Settles an order

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