

Limit order structure

Field	Type	Inner Solidity type	Description
salt	string	uint256	some unique value. It is necessary to be able to create limit orders with the same parameters (so that they have a different hash)
makerAsset	string	address	the address of the asset you want to sell (address of a token contract)
takerAsset	string	address	the address of the asset you want to buy (address of a token contract)
maker	string	address	the address of the limit order creator
receiver	string	address	the address of the limit order receiver
byDefault	string	address	by default contains a zero address, which means that taker asset will be sent to the address of the creator of the limit order. If you set a value, then taker asset will be sent to the specified address
allowedSender	string	address	by default contains a zero address, which means that a limit order is available for everyone to fill. If you set a value, then the limit order will be available for execution only for the specified address (private limit order)
makingAmount	string	uint256	amount of maker asset
takingAmount	string	uint256	amount of taker asset
interactions	string	bytes	hex bytes string with interactions
metaFields	string	concat(makerAssetData, takerAssetData, getMakingAmount, getTakingAmount, predicate, permit, preInterlcation, postInterlcation)	offsets string uint256 every 32's bytes represents offset of the n'ths interaction

interactions

meta fields

Index	Field Type	Inner Solidity type	Description
0	makerAssetData	string bytes	the technical info about a maker asset and its amount
1	takerAssetData	string bytes	the technical info about a taker asset and its amount
2	getMakingAmount	string bytes	technical information to get the amount of the maker asset
3	getTakingAmount	string bytes	technical information to get the amount of the taker asset
4	predicate	string bytes	a predicate call data. See more Predicate docs
5	permit	string bytes	a permit (EIP-2612) call data. Could be built using utility library
6	preInteraction	string bytes	What to do before the transfer. A call data for InteractiveNotificationReceiver. See more Interaction receiver docs
7	postInteraction	string bytes	What to do after the transfer has been made. a call data for InteractiveNotificationReceiver. See more Interaction receiver docs

Example:

```

await
new
LimitOrderBuilder ( ... ) . buildLimitOrder ( { makerAssetAddress :
'0x0000000000000000000000000000000000000000000000000000000000000000A' , takerAssetAddress :
'0x0000000000000000000000000000000000000000000000000000000000000000B' , makerAddress :
'0x0000000000000000000000000000000000000000000000000000000000000001' , receiver :
'0x0000000000000000000000000000000000000000000000000000000000000002' , allowedSender :
'0x0000000000000000000000000000000000000000000000000000000000000003' , makingAmount :
'100' , takingAmount :
'200' , getMakingAmount :
'0x11' , getTakingAmount :
'0x2222' , predicate :
'0x333333' , permit :
'0x44444444' , preInteraction :
'0x5555555555' , postInteraction :
'0x666666666666' , } ) ;

// { // salt: '390590399942' , // makerAsset: '0x0000000000000000000000000000000000000000000000000000000000000000A' , // takerAsset: '0x0000000000000000000000000000000000000000000000000000000000000000B' , //
maker: '0x0000000000000000000000000000000000000000000000000000000000000001' , // receiver: '0x0000000000000000000000000000000000000000000000000000000000000002' , // allowedSender:
'0x0000000000000000000000000000000000000000000000000000000000000003' , // makingAmount: '100' , // takingAmount: '200' , // offsets:
'566158880104319961733422544660299808878295192710391671368140609028096' , // interactions: '0x112222333333444444445555555555666666666666' // } Where
the each offset is iteration bytes offset:

// interactions: '0x112222333333444444445555555555666666666666' // ^ ^ ^ ^ ^ ^ // 1 2 4 7 11 16 21

// Note: offset is bytes offset. Not a hex offset. // // > Buffer.from('112222333333444444445555555555666666666666', 'hex') //// ^ ^ ^ ^ ^ ^ // 1 2 4 7 11 16 21

( 0n
<<
( 0n ) )

// makerAssetData, length: 0, start: 0, end: 0 +
( 0n
<<
( 32n
*
1n ) )

// takerAssetData, length: 0, start: 0, end: 0 +
( 1n
<<
( 32n
*
2n ) )

// getMakingAmount. length: 1, start: 0, end: 1 +

```

```
( 3n
<<
( 32n
*
3n ))
// getTakingAmount, length: 2, start: 2, end: 3 +
( 6n
<<
( 32n
*
4n ))
// predicate, length: 3, start: 4, end: 6 +
( 10n
<<
( 32n
*
5n ))
// permit, length: 4, start: 7, end: 10 +
( 15n
<<
( 32n
*
6n ))
// preInteraction, length: 5, start: 11, end: 15 +
( 21n
<<
( 32n
*
7n ))
// postInteraction, length: 6, start: 16, end: 21
566158880104319961733422544660299808878295192710391671368140609028096
0x150000000f0000000a000000060000000300000001000000000000000 // ^ ^ ^ ^ ^ ^ // 21 15 10 6 3 1 0 Edit this page Previous Create a limit order Next Fill a limit order
```