







32 Articles

IOrderMixin

Quick links

Types

Functions

Events

Errors

Types

Order

```
struct Order {
  uint256 salt;
  Address maker;
  Address receiver;
  Address makerAsset;
  Address takerAsset;
  uint256 makingAmount;
  uint256 takingAmount;
  MakerTraits makerTraits;
}
```

Functions

bitInvalidatorForOrder

function bitInvalidatorForOrder(address maker, uint256 slot) external view returns (uint256 result)

Returns bitmask for double-spend invalidators based on lowest byte of order.info and filled quotes

Name	Туре	Description
maker	address	Maker address
slot	uint256	Slot number to return bitmask for

Return Values

Name	Туре	Description	
result	uint256	Each bit represents whether corresponding was already invalidated	

remainingInvalidatorForOrder

function remainingInvalidatorForOrder(address maker, bytes32 orderHash) external view returns (uint256 remaining)

Returns bitmask for double-spend invalidators based on lowest byte of order.info and filled quotes

Parameters

Name	Туре	Description
maker	address	
orderHash	bytes32	Hash of the order

Return Values

Name	Туре	Description
remaining	uint256	Remaining amount of the order

raw Remaining Invalidator For Order

function rawRemainingInvalidatorForOrder(address maker, bytes32 orderHash) external view returns (uint256 re mainingRaw)

Returns bitmask for double-spend invalidators based on lowest byte of order.info and filled quotes

Name	Туре	Description
maker	address	
orderHash	bytes32	Hash of the order

Return Values

Name	Туре	Description
remainingRaw	uint256	Inverse of the remaining amount of the order if order was filled at least once, otherwise 0

cancelOrder

function cancelOrder(MakerTraits makerTraits, bytes32 orderHash) external

Cancels order's quote

Parameters

Name	Туре	Description
makerTraits	MakerTraits	Order makerTraits
orderHash	bytes32	Hash of the order to cancel

cancelOrders

function cancelOrders(MakerTraits[] makerTraits, bytes32[] orderHashes) external

Cancels orders' quotes

Parameters

Name	Туре	Description
makerTraits	MakerTraits[]	Orders makerTraits
orderHashes	bytes32[]	Hashes of the orders to cancel

bitsInvalidateForOrder

function bitsInvalidateForOrder(MakerTraits makerTraits, uint256 additionalMask) external

Cancels all quotes of the maker (works for bit-invalidating orders only)

Name	Туре	Description
makerTraits	MakerTraits	Order makerTraits
additionalMask	uint256	Additional bitmask to invalidate orders

hashOrder

function hashOrder(struct IOrderMixin.Order order) external view returns (bytes32 orderHash)

Returns order hash, hashed with limit order protocol contract EIP712

Parameters

Name	Туре	Description
order	struct IOrderMixin.Order	Order

Return Values

Name	Туре	Description
orderHash	bytes32	Hash of the order

simulate

function simulate(address target, bytes data) external

Delegates execution to custom implementation. Could be used to validate if transferFrom works properly

The function always reverts and returns the simulation results in revert data.

Parameters

Name	Туре	Description
target	address	Addresses that will be delegated
data	bytes	Data that will be passed to delegatee

fillOrder

function fillOrder(struct IOrderMixin.Order order, bytes32 r, bytes32 vs, uint256 amount, TakerTraits takerTraits) external payable returns (uint256 makingAmount, uint256 takingAmount, bytes32 orderHash)

Fills order's quote, fully or partially (whichever is possible).

Name	Туре	Description	
order	struct IOrderMixin.Order	Order quote to fill	
r	bytes32	R component of signature	
VS	bytes32	VS component of signature	
amount	uint256	Taker amount to fill	
takerTraits	TakerTraits	Specifies threshold as maximum allowed takingAmount when takingAmount is zero, otherwise specifies minimum allowed makingAmount. The 2nd (0 based index) highest bit specifies whether taker wants to skip maker's permit.	

Return Values

Name	Туре	Description
makingAmount	uint256	Actual amount transferred from maker to taker
takingAmount	uint256	Actual amount transferred from taker to maker
orderHash	bytes32	Hash of the filled order

fillOrderArgs

function fillOrderArgs(struct lOrderMixin.Order order, bytes32 r, bytes32 vs, uint256 amount, TakerTraits taker Traits, bytes args) external payable returns (uint256 makingAmount, uint256 takingAmount, bytes32 orderHash)

Same as fillOrder but allows to specify arguments that are used by the taker.

Parameters

Name	Туре	Description	
order	struct IOrderMixin.Order	Order quote to fill	
r	bytes32	R component of signature	
VS	bytes32	VS component of signature	
amount	uint256	Taker amount to fill	
takerTraits	TakerTraits	Specifies threshold as maximum allowed takingAmount when takingAmount is zero, otherwise specifies minimum allowed makingAmount. The 2nd (0 based index) highest bit specifies whether taker wants to skip maker's permit.	
args	bytes	Arguments that are used by the taker (target, extension, interaction, permit)	

Return Values

Name	Туре	Description
makingAmount	uint256	Actual amount transferred from maker to taker
takingAmount	uint256	Actual amount transferred from taker to maker
orderHash	bytes32	Hash of the filled order

fillContractOrder

function fillContractOrder(struct lOrderMixin.Order order, bytes signature, uint256 amount, TakerTraits takerTraits) external returns (uint256 makingAmount, uint256 takingAmount, bytes32 orderHash)

Same as fillOrder but uses contract-based signatures.

See tests for examples

Parameters

Name	Туре	Description	
order	struct IOrderMixin.Order	Order quote to fill	
signature	bytes	Signature to confirm quote ownership	
amount	uint256	Taker amount to fill	
takerTraits	TakerTraits	Specifies threshold as maximum allowed takingAmount when takingAmount is zero, otherwise specifies minimum allowed makingAmount. The 2nd (0 based index) highes bit specifies whether taker wants to skip maker's permit.	

Return Values

Name	Туре	Description
makingAmount	uint256	Actual amount transferred from maker to taker
takingAmount	uint256	Actual amount transferred from taker to maker
orderHash	bytes32	Hash of the filled order

fill Contract Order Args

function fillContractOrderArgs(struct lOrderMixin.Order order, bytes signature, uint256 amount, TakerTraits tak erTraits, bytes args) external returns (uint256 makingAmount, uint256 takingAmount, bytes32 orderHash)

Same as fillContractOrder but allows to specify arguments that are used by the taker.

See tests for examples

Parameters

Name	Туре	Description	
order	struct IOrderMixin.Order	Order quote to fill	
signature	bytes	Signature to confirm quote ownership	
amount	uint256	Taker amount to fill	
takerTraits	TakerTraits	Specifies threshold as maximum allowed takingAmount when takingAmount is zero, otherwise specifies minimum allowed makingAmount. The 2nd (0 based index) highest bit specifies whether taker wants to skip maker's permit.	
args	bytes	Arguments that are used by the taker (target, extension, interaction, permit)	

Return Values

Name	Туре	Description
makingAmount	uint256	Actual amount transferred from maker to taker
takingAmount	uint256	Actual amount transferred from taker to maker
orderHash	bytes32	Hash of the filled order

Events

OrderFilled

 $\textcolor{red}{\textbf{event}} \ \ \textbf{OrderFilled(bytes 32 order Hash, uint 256 remaining Amount)}$

Emitted when order gets filled

Parameters

Name	Туре	Description
orderHash	bytes32	Hash of the order
remainingAmount	uint256	Amount of the maker asset that remains to be filled

OrderCancelled

Emitted when order without useBitInvalidator gets cancelled

Parameters

Name	Туре	Description
orderHash	bytes32	Hash of the order

Bit Invalidator Updated

event BitInvalidatorUpdated(address maker, uint256 slotIndex, uint256 slotValue)

Emitted when order with useBitInvalidator gets cancelled

Parameters

Name	Туре	Description
maker	address	Maker address
slotIndex	uint256	Slot index that was updated
slotValue	uint256	New slot value

Errors

InvalidatedOrder

error InvalidatedOrder()

TakingAmountExceeded

 ${\tt error} \ \, {\sf TakingAmountExceeded}()$

PrivateOrder

error PrivateOrder()

BadSignature

error BadSignature()

OrderExpired

error OrderExpired()

WrongSeriesNonce

error WrongSeriesNonce()

SwapWithZeroAmount

error SwapWithZeroAmount()

PartialFillNotAllowed

error PartialFillNotAllowed()

OrderIsNotSuitableForMassInvalidation

error OrderIsNotSuitableForMassInvalidation()

Epoch Manager And Bit Invalidators Are Incompatible

error EpochManagerAndBitInvalidatorsAreIncompatible()

ReentrancyDetected

error ReentrancyDetected()

PredicateIsNotTrue

error PredicateIsNotTrue()

TakingAmountTooHigh

error TakingAmountTooHigh()

MakingAmountTooLow

TransferFromMakerToTakerFailed

error TransferFromMakerToTakerFailed()

TransferFromTakerToMakerFailed

error TransferFromTakerToMakerFailed()

MismatchArraysLengths

error MismatchArraysLengths()

InvalidPermit2Transfer

error InvalidPermit2Transfer()

SimulationResults

error SimulationResults(bool success, bytes res)

Previous

Contract Contract

Next

IPermit2WitnessTransferFrom >

© 2025 1inch Limited

Privacy Policy

Terms of Service

Commercial API Terms of Use