

Intents

Within CoW Protocol, intents are the way that a user expresses their desired swap outcome.

Parameters

The parameters required for an intent can be broken down into three categories:

- [Batch auction](#)
- parameters - those required to solve the [batch-optimization problem](#)
- [Co-ordination / Settlement](#)
- parameters - those required for co-ordination and settlement purposes
- [Metadata](#)
- parameters - those required for metadata purposes

Batch auction

- tokens to swap (i.e.sellToken
- andbuyToken
-)
- amounts to swap (i.e.sellAmount
- andbuyAmount
-)
- kind of swap (i.e.sell
- orbuy
-)
- partial fillability (i.e.true
- orfalse
-)
- fees payable to the protocol (i.e.feeAmount
-)

Co-ordination / Settlement

- address to send the tokens to (i.e.receiver
- of thebuyToken
-)
- validity of the order (i.e.validTo
-)
- source of thesellToken
- (i.e.sellTokenBalance
-)
- destination of thebuyToken
- (i.e.buyTokenBalance
-)

Metadata

- application specific data (i.e.appData
-)

note Some parameters that are of primary consideration for co-ordination / settlement may be of secondary consideration for the batch auction. For example, thereceiver of thebuyToken may be set to another address which requires storage slot to be initialized from zero, increasing the gas cost of the transaction and impacting the solution to the batch-optimization problem.

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