SeriesNonceManager predicate

Make sure you have read and understand

- predicate
- seriesnonce

Since Limit Order Protocol V3 nonce management are delegated to SeriesNonceManager smart contract in terms of usual Limit Orders and P2P (aka "private limit order"), there are two helpful classes:

- SeriesNonceManagerFacade
- — an interface for interacting with smart contract
- SeriesNonceManagerPredicateBuilder
- — anLimitOrderPredicateBuilder
- -compatible DSL for building predicate, which relays on SeriesNonceManager

SeriesNonceManagerFacade

Seenonce

SeriesNonceManagerPredicateBuilder

Partially implementsLimitOrderPredicateBuilder for same purpose, but for SeriesNonceManager smart contract.

Incompatible with Gasless!

For Gasless orders useLimitOrderPredicateBuilder .

Built-in operators

timestampBelowAndNonceEquals

timestampBelowAndNonceEquals (timestamp :

number

| bigint , makerNonce :

number

| bigint , makerAddress :

string) The predicate checks the same asand(timestampBelow(), nonceEquals()) .

nonceEquals

nonceEquals (makerAddress :

string , makerNonce :

number

| bigint) The predicate checks that themakerNonce is equal to the nonce ofmakerAddress .

WARNING!

To save gas consider using one of

- SeriesNonceManagerPredicateBuilder.timestampBelowAndNonceEquals(…)
- – for everything but gasless
- LimitOrderPredicateBuilder.timestampBelowAndNonceEquals(…)

- – for gasless only

instead as it more optimal then separateand(timestampBelow(), nonceEquals()) calls.

Examples

// Because timestampBelowAndNonceEquals is method of another contract arbitraryStaticCall() is necessary const simpleLimitOrderPredicate : LimitOrderPredicateCallData =

arbitraryStaticCall (seriesNonceManagerPredicateBuilder . facade , seriesNonceManagerPredicateBuilder . timestampBelowAndNonceEquals (NonceSeriesV2 . LimitOrderV3 , expiration , nonce , walletAddress ,) ,) ;

SeeLimitOrderPredicateBuilder for more examples on usingLimitOrderPredicateBuilder andSeriesNonceManagerPredicateBuilder together. Edit this page Previous Predicate Next Limit order remaining