Overview

The Block SDK is a toolkit for building customized blocks. The Block SDK is a set of Cosmos SDK and ABCI++ primitives that allows chains to fully customize blocks to specific use cases. It turns your chain's blocks into a highway consisting of individual lanes with their own special functionality.

Skip has built out a number of plug-and-play lanes on the SDK that your protocol can use, including in-protocol MEV recapture and Oracles! Additionally, the Block SDK can be extended to add your own custom lanes to configure your blocks to exactly fit your application needs.

Note: you can find more info about Block SDK, how it works and how to use the module in the official Skip's Block SDK docs:https://docs.skip.money/blocksdk/searcher-docs

Which Block SDK Lanes does Neutron support?

Currently, Neutron supports only two type of Block SDK Lanes:

- Base Lane
- is intended to hold all txs that are not matched by any lanes ordered before this lane;
- MEV Lane
-
    - is the MEV lane, this lane is intended to hold all bid txs.

Block SDK Auction parameters on Neutron

Note: All auction parameters are accessible though the/block-sdk/x/auction/v1/params HTTP REST endpoint. In order to participate in an auction, searchers must pay a fee. This fee is paid in the native token of the chain. The fee is determined by the auction parameters, which are set by the chain. The auction parameters are:

- MaxBundleSize:4
-
    - specifies the maximum number of transactions that can be included in a bundle (bundle = an ordered list of transactions). Bundles must be ≤ this number.
- ReserveFee:0.5 NTRN
-
    - specifies the bid floor to participate in the auction. Bids that are lower than the reserve fee are ignored.
- MinBidIncrement:0.1 NTRN
-
    - specifies how much greater each subsequent bid must be (as seen by an individual node) in order to be considered. If the bid is lower than the highest current bid + min bid increment, the bid is ignored.
- ProposerFee:25%
-
    - defines the portion of the winning bid that goes to theaccount modulecons_redistribute
- which sends coins to a provider chain where all the rewards will be distributed between validators.
- EscrowAccountAddress:neutron1suhgf5svhu4usrurvxzlgn54ksxmn8gljarjtxqnapv8kjnp4nrstdxvff
- (Neutron Main DAO
-)
-
    - is the address of the account that will receive a portion of the bid proceeds.
- FrontRunningProtection:false
-
    - determines whether front-running and sandwich protection is enabled.

Note: FrontRunningProtection

If this is set to true, bundles must follow these guidelines:

- A searcher must put your signed transactions after transactions searcher didn’t sign;
- A searcher can only have at most two unique signers in the bundle.Previous Metrics Next Overview