

NDB INTERNAL WALLET DOCUMENTATION

Basic idea

Internal wallet stores all kind of users' crypto assets including NDB. Each user has individual wallet for each crypto type. Individual wallet has two options, free and hold (locked).

User can withdraw from their internal wallet into external wallet equal to or less than free amount.

Of course, it must be checked user have been verified with KYC/AML. But it will be done at spring backend. In contract, it is enough to check free amount.

User cannot withdraw held token.

Only owner or authorized user can call all functions in wallet contract.

// Please check the type tokens and net.

Functions

Deposit

When user deposit a crypto, it gives deposit address for target token and net (ERC20 or BEP20, TRC-20, Omni, etc.).

The deposit address is stored in contract. If there is no deposit address that the user used before, it generates new address and returns.

Once the user deposits the right token, it stores in wallet contract and adds free amount.

If transaction succeeded, it must call back to backend.

Withdraw

When user withdraw their free assets, it (the contract function) needs external wallet address and amount.

If all conditions are matched, the token will be transferred into user's external wallet.

The transferred amount will be deducted from free.

If transaction succeeds, it must call back to backend.

Make & Release Hold

When user use their free amount token for some activity, such as Place Bid or Stake, it will be held (locked).

Once activity is done, hold (locked) will be deducted from (if bid is winner or expired Stake time) or reverted into free.

If transaction succeeds, it must call back to backend.

Supported Cryptocurrencies

Admin can add any kinds of crypto into supported list.

Current list:

BTC, BCH, ETH, DAI, DOGE, USDC, LTC, NDB, VOLT.