Transaction Module

This module provides the preparatory component that is required for sending a transaction.

with_message(msgs)

This function add one or more messages to

The message can be any message as listed in Oracle Modules or Ocosmos Based Messages . Please note that our message should be imported from the generate or or other than the message is not that our message should be imported from the generate of the message is not that our message is not that

Parameter

- msgs
- : Messages to be included into the transaction.

Return

with_sender(client, sender)

This function setaccount_num and sequence from with the address from sender . must have at least 1 message added before calling with_sender()

Parameter

- client
- : Client used to setaccount_num
- andsequence
- by callingget_address()
- . : Address of the sender.

Return

Type Description EmptyMsgError Message is empty, please use with_messages at least 1 message NotFoundError Account doesn't exist

with_account_num(account_num)

This function sets the account number in.

Parameter

- account_num

Return

with_sequence(sequence)

This function sets the sequence number in.

Parameter

- sequence

Return

with chain id(chain id)

This function sets the chain ID in.

Parameter

chain_id

Return

with_fee(fee)

This function sets the fee by using the given fee and gas limit

Parameter

• fee

Return

with_gas(gas)

This function sets the gas limit in.

Parameter

• gas

Return

with_memo(memo)

This function sets the memo in.

Parameter

- memo
- : Maximum length of memo is 256

Return

Type Description ValueTooLargeError Memo is too large

get_sign_doc(public_key)

This function returns a sign data from

Parameter

- · public_key
- - -
- , default = None: Public key.

Return

Exception

Type Description EmptyMsgError message is empty UndefinedError account_num should be defined UndefinedError sequence should be defined UndefinedError chain_id should be defined

get_tx_data(signature, public_key)

This function returns a transaction that need to be sent.

Parameter

- signature
- : Signature from sign from get_sign_doc
- public_key
- <PublicKey
- , default = None: Public key

Return

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Example use case

Note: Get the here

import os

 $from\ pyband\ .\ client\ from\ pyband\ .\ transaction\ import\ Transaction\ from\ pyband\ .\ wallet\ import\ Private Key$

 $from\ pyband\ .\ proto\ .\ cosmos\ .\ base\ .\ v1beta1\ .\ coin_pb2\ import\ Coin\ from\ pyband\ .\ proto\ .\ oracle\ .\ v1\ .\ tx_pb2\ import\ MsgRequestData$

grpc_url

"" c = Client (grpc_url)

MNEMONIC

os . getenv ("MNEMONIC") private_key = PrivateKey . from_mnemonic (MNEMONIC) public_key = private_key . to_public_key () sender_addr = public_key . to_address () sender = sender_addr . to_acc_bech32 ()

request msg

 $MsgRequestData (oracle_script_id = 37, calldata = bytes. fromhex ("0000002000000034254430000000345544800000000000064"), ask_count = 4, min_count = 3, client_id = "BandProtocol", fee_limit = [Coin (amount = "100", denom = "uband")], prepare_gas = 50000, execute_gas = 200000, sender = sender,)$

account

c . get_account (sender) account_num = account . account_number sequence = account . sequence

fee

[Coin (amount = "0" , denom = "uband")] chain_id = c . get_chain_id ()

txn

(Transaction (). with_messages (request_msg). with_sequence (sequence). with_account_num (account_num). with_chain_id (chain_id). with_gas (2000000). with_fee (fee). with_memo (""))

sign doc

txn . get_sign_doc (public_key) signature = private_key . sign (sign_doc . SerializeToString ()) tx_raw_bytes = txn . get_tx_data (signature , public_key) print (tx_raw_bytes . hex ())

Result

0a93010a90010a192f6f7261636c652e76312e4d7367526571756573744461746112730825121a00000000000000342544300000003455448000000000000064180420032a0c42616e6450726f746f63€
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