Transactions

Transactions is a library with utilities to encode, decode and sign Ethereum transactions.

Functions

encodeRLP

Encode a EIP-155 transaction in RLP.

Input:

- txStruct
- (EIP155
-): Is the transaction structure.

Output:

- output
- (bytes
-): The encoded RLP bytes.

encodeRLP

Encode a EIP-1559 request transaction in RLP.

Input:

- txStruct
- (EIP155Request
-): Is the transaction structure.

Output:

- output
- (bytes
-): The encoded RLP bytes.

encodeRLP

Encode a EIP-1559 transaction in RLP.

Input:

- txStruct
- (EIP1559
-): Is the transaction structure.

Output:

- output
- (bytes
-): The encoded RLP bytes.

encodeRLP

Encode a EIP-1559 request transaction in RLP.

Input:

txStruct

- (EIP1559Request
-): Is the transaction structure.

Output:

- output
- (bytes
-): The encoded RLP bytes.

decodeRLP_EIP155

Decode a EIP-155 transaction from RLP.

Input:

- rlp
- (bytes
-): Is the encoded RLP bytes.

Output:

- txStruct
- (EIP155
-): The transaction structure.

decodeRLP_EIP155Request

Decode a EIP-155 request transaction from RLP.

Input:

- rlp
- (bytes
-): Is the encoded RLP bytes.

Output:

- txStruct
- (EIP155Request
-): The transaction structure.

decodeRLP EIP1559

Decode a EIP-1559 transaction from RLP.

Input:

- rlp
- (bytes
-): Is the encoded RLP bytes.

Output:

- txStruct
- (EIP1559
-): The transaction structure.

decodeRLP_EIP1559Request

Decode a EIP-1559 request transaction from RLP.

Input:

- rlp
- (bytes)
-): Is the encoded RLP bytes.

Output:

- txStruct
- (EIP1559Request
-): The transaction structure.

<u>signTxn</u>

Sign a EIP-155 transaction request.

Input:

- request
- (EIP1559Request
-): Is the transaction request.
- signingKey
- (string
-): Is the private key to sign the transaction.

Output:

- · response
- (<u>EIP1559</u>
-): The signed transaction.

<u>signTxn</u>

Sign a EIP-155 transaction request.

Input:

- request
- (EIP155Request
-): Is the transaction request.
- signingKey
- (string
-): Is the private key to sign the transaction.

Output:

- response
- (<u>EIP155</u>
-): The signed transaction.

Structs

EIP155

EIP-155 transaction structure.

- to
- (address
-): Is the target address.
- gas
- (uint256
-): Is the gas limit.
- gasPrice
- (uint256
-): Is the gas price.
- value

- (uint256
-): Is the transfer value in gwei.
- nonce
- (uint256
-): Is the latest nonce of the sender.
- data
- · (bytes
-): Is the transaction data.
- · chainId
- (uint256
-): Is the id of the chain where the transaction will be executed.
- 1
- (bytes32
-): Is the 'r' signature value.
- S
- (bytes32
-): Is the 's' signature value.
- V
- (uint256
-): Is the 'v' signature value.

EIP155Request

EIP-155 transaction request structure.

- to
- (address
-): Is the target address.
- gas
- (uint256
-): Is the gas limit.
- gasPrice
- (uint256
-): Is the gas price.
- value
- (uint256
-): Is the transfer value in gwei.
- nonce
- (uint256
-): Is the latest nonce of the sender.
- data
- (bytes
-): Is the transaction data.
- chainId
- (uint256
-): Is the id of the chain where the transaction will be executed.

EIP1559

EIP-1559 transaction structure.

- to
- (address
-): Is the target address.
- gas
- (uint256
-): Is the gas limit.
- maxFeePerGas
- (uint256
-): Is the maximum fee per gas.
- maxPriorityFeePerGas
- (uint256
-): Is the maximum priority fee per gas.
- value
- (uint256

-): Is the transfer value in gwei.
- nonce
- (uint256
-): Is the latest nonce of the sender.
- data
- · (bytes
-): Is the transaction data.
- · chainId
- (uint256
-): Is the id of the chain where the transaction will be executed.
- accessList
- (bytes
-): Is the access list.
- |
- (bytes32
-): Is the 'r' signature value.
- S
- (bytes32
-): Is the 's' signature value.
- \
- (uint256
-): Is the 'v' signature value.

EIP1559Request

EIP-1559 transaction request structure.

- to
- (address
-): Is the target address.
- gas
- (uint256
-): Is the gas limit.
- maxFeePerGas
- (uint256
-): Is the maximum fee per gas.
- maxPriorityFeePerGas
- (uint256
-): Is the maximum priority fee per gas.
- value
- (uint256
-): Is the transfer value in gwei.
- nonce
- (uint256
-): Is the latest nonce of the sender.
- data
- (bytes
-): Is the transaction data.
- chainId
- (uint256
-): Is the id of the chain where the transaction will be executed.
- accessList
- (bytes
-): Is the access list. Edit this page Previous Suapp Next Bundle