Gate Wallet Integration Doc

EVM Chain Method

Global variable

Gatewallet inherits ethereum variables. When you use Gatewallet variables, you need to modify the connector based on your own projectwindow.ethereum.

- window.ethereum
- window.gatewallet

Check whether Gate Wallet is installed

```
1 if (typeof window.gatewallet !== 'undefined') {
2  console.log('Gate Wallet is installed!');
3 }
```

eth_requestAccounts Connect account

```
const newAccounts = await gatewallet.request({ method: 'eth_requestAccounts' })

then(handleAccountsChanged)

catch((error) => {

if (error.code === 4001) {

// EIP-1193 userRejectedRequest error

console.log('Please connect to Gate Wallet.');

else {

console.error(error);

}

}

}

}

}

}

**The Accounts is a served in the property of the p
```

eth_accounts Get account

```
const _accounts = await gatewallet.request({ method: 'eth_accounts' });
console.log(_accounts) //0x...11
```

```
4 console.log(window.gatewallet.selectedAddress) //0x...11
```

eth_sign Signature

```
const accounts = '0x09fb420ed4059d3e67da7a53e38a8fe7fa12a8c2'
const msg = '0x879a053d4800c6354e76c7985a865d2922c82fb5b3f4577b2fe08b998954f2e0'
const ethResult = await gatewallet.request({
    method: 'eth_sign',
    params: [accounts, msg],
};
```

personal_sign Authorized Signature

```
const from = '0x09fb420ed4059d3e67da7a53e38a8fe7fa12a8c2'
const msg = `消息体`;
const sign = await gatewallet.request({
    method: 'personal_sign',
    params: [msg, from, 'Example password'],
});
console.log(sign); //0x650e...
```

eth_sendTransaction Transaction

```
const transactionParameters = {
2
  nonce: '0x00',
   gasPrice: '0x09184e72a000',
3
4
   gas: '0x2710',
5
   6
   from: gatewallet.selectedAddress,
   value: '0x00',
7
8
    9
   chainId: '0x3',
10
11 };
12
13 const txHash = await gatewallet.request({
   method: 'eth_sendTransaction',
14
    params: [transactionParameters],
15
16 });
```

Sign Typed Data

```
eth_signTypedData_v3
eth_signTypedData_v4
```

```
const sign = await gatewallet.request({
    method: 'eth_signTypedData_v3',
    params: [from, JSON.stringify(msgParams)],
});

const sign = await gatewallet.request({
    method: 'eth_signTypedData_v4',
    params: [from, JSON.stringify(msgParams)],
});
```

accountsChange

```
1 gatewallet.on('accountsChange',(res)=>{
2     console.log(res)
3 })
```

gateAccountsChange

This method is used when the wallet account (gate Accountinfo) is switched.

Only Gate Wallet has this method injected.

```
window?.gatewallet?.on('gateAccountChange', fun)
return () => {
   window?.gatewallet?.removeListener('gateAccountChange', fun)
}
```

Bitcoin Chain

Transaction

```
window.gatewallet.bitcoin.sendBitcoin({ fromAddress, toAddress,
satoshis, options })
```

Parameter

- fromAddress string: Transfer address
- toAddress string: Receiving address
- satoshis string: Quantity originated (satoshis)
- options object: (Optional) Custom rate
 - feeRate number: Network rate

Returned value

- Promise object
 - txhash

demo

```
1 try {
2  await window.gatewallet.bitcoin.sendBitcion({ fromAddress, toAddress, satoshis, options })
3 } catch (err) {
4  console.error(err)
5 }
```

signMessage

```
window.gatewallet.bitcoin.signMessage({ fromAddress, text, type })
```

Parameter

- fromAddress string: Signed address
- text string: Signed message
- type "ecdsa" | "bip322-simple": (Optional) The default is "ecdsa"

Returned value

- Promise string
 - signature: Signature result

Inscription

```
window.gatewallet.bitcoin.inscribeTransfer({ fromAddress, toAddress,
ticker, amount, isOrdinals })
```

Parameter

- fromAddress string: Inscribed address
- toAddress string: Address of receive
- ticker string: Inscription tick
- amount string: (Optional) Quantity of inscriptions
- isOrdinals boolean: Is it Ordinals deal

Returned value

- Promise object
 - [hash1, hash2]: commit and review`s hash of the broadcast

Send inscription

```
window.gatewallet.bitcoin.sendInscription({ fromAddress, toAddress,
inscriptionId, options })
```

Parameter

- fromAddress string: Address of send
- toAddress string: Address of receive
- inscriptionId string: Inscription id
- amount string: Transfer quantity
- options object: (Optional) Custom rate
 - feeRate number: Network rate
 - amount number: Quantity

Returned value

- Promise object
 - hash: Broadcast hash

Deploy

```
window.gatewallet.bitcoin.deploy({fromAddress, toAddress, ticker, max,
limit, decimals})
```

Parameter

- fromAddress string: Address of send
- toAddress string: Address of receive
- ticker string: Inscription name
- max string: Total supply
- limit string: Mint limits the number of times in a single session
- decimals string: (Optional) decimals

Returned value

```
Promise - object{"hash_raw_tx_1" - string"hash_raw_tx_2" - string
```

Mint

```
window.gatewallet.bitcoin.mint({fromAddress, toAddress, ticker,
amount, repeat})
```

Parameter

- fromAddress string: Address of send
- toAddress string: Address of receive
- ticker string: Inscription name
- amount string: mint quantity
- repeat string: Times of repetition

Returned value

Inscription NFT

```
window.gatewallet.bitcoin.inscribeNFT({fromAddress, toAddress,
mimeType, payload})
```

Parameter

- fromAddress string: Address of send
- toAddress string: Address of receive
- mimeType string: Type of inscription (image/png、image/jpeg、image/svg+xml、text/html、text/plain、text/csv etc.)
- payload array[string]: An array of hexadecimal images, text, etc.

signPsbt (Put on shelves, buy, etc)

```
window.gatewallet.bitcoin.signPsbt({fromAddress, psbtHex, options})
```

Parameter

- fromAddress string: BTC address to be signed
- psbtHex string:
- options object (Optional)
 - o autoFinalized boolean: whether finalize psbt after signing, default is true
 - o toSignInputs array:
 - index number : which input to sign
 - address string: (at least specify either an address or a publicKey) Which corresponding private key to use for signing
 - publicKey string: (at least specify either an address or a publicKey) Which corresponding private key to use for signing
 - sighashTypes number[]:(optionals) sighashTypes
 - disableTweakSigner boolean :(optionals) When signing and unlocking
 Taproot addresses, the tweakSigner is used by default for signature generation.
 Enabling this allows for signing with the original private key.

signPsbts (signPsbt batch)

```
window.gatewallet.bitcoin.signPsbts({fromAddress, psbtHexs, options})
```

Parameter

fromAddress - string: BTC address to be signed

```
psbtHexs - string[]: psbtHex array
options - object []: (Optional)
   autoFinalized - boolean: whether finalize psbt after signing, default is true
   toSignInputs - array:
      index - number : which input to sign
     address - string: (at least specify either an address or a publicKey) Which
     corresponding private key to use for signing
     publicKey - string: (at least specify either an address or a publicKey) Which
     corresponding private key to use for signing
     sighashTypes - number[]:(optionals) sighashTypes
gateAccountInfo
Variable acquisition
window?.gatewallet?.gateAccountInfo
Field details
walletName - string: Walletname
accountName - string: Account name
walletId - string: Uniqueid
accountNetworkArr - array :[{
   accountFormat - string: Accountformat
   accountFormatName - string: The account format corresponds to the full name
   address - string: Account address
   network - string : Chain abbreviation
   accountPublicKey - string: (Optional) Account public key (Only Bitcoin chain
```

moreAddressSort - array: Multiple address sort

gateAccountChange Event

Event listening

has this field)

}],

```
1 window?.gatewallet?.on('gateAccountChange', (gateAccountInfo) => {
2    console.log('---gateAccountInfo---', gateAccountInfo)
3 }))
```

Event removal

```
1 window?.gatewallet?.removeListener('gateAccountChange', function)
```