How to use ASI Alliance Wallet

Feature 3 - Send/Receive Function

Send/Receive Button

This button allows the user to performSend andReceive token operations. By using this feature, users can send and receive transactions seamlessly within the wallet.

Send Option

Initiate Transfer

If a user wants to send money to another user, they should start by locating theTransaction button.

Select Send Option

Once theTransaction button is found, the user selects the option toSend money.

Enter Amount and Account

After selecting theSend option, the user needs to enter the amount they wish to send and choose the account from which the money will be transferred. Be sure to select the correct account on your wallet.

Add Recipient's Address

Next, the user is prompted to add the recipient's address. This can be done in three ways: either bymanually entering it ,scanning the address or by using theAdd to contact option.

Optional: Add Memo

If the user wishes to add aMemo to the transaction, they can do so at this stage.

i Fetch transaction memo limits and storage details

1. Character/size limitations
2. : the memo field is limited to256 bytes
3. by default. This is configurable and can be changed via a governance proposal if needed. To check the current value programmatically, you can query theauth
4. module parametershere(opens in a new tab)
5. and decode the response by copy-pasting there inner content ofvalue
6. (without quotes). You'll receive a base64-encoded response containing the parameters, which you can decode to view the structure, including themax_memo_characters
7. ,tx_sig_limit
8. , andtx_size_cost_per_byte
9. parameters.
10. Limitations
11. : while you can add any data within the 256-byte limit, the memo field is intended forshort text
12. . Adding structured or binary data (e.g., blob attachments) is technically possible within the size constraint, but it isn't recommended due to potential gas costs and inefficiency. If you wish to store larger or more complex data, consider using other data storage methods, as encoding this data in the memo could potentially exhaust gas and processing limits. The currentgas constraints
13. are set up:
14.
     - Each byte stored in a transaction costs 10 gas (as set bytx_size_cost_per_byte
15.
     -).
16.
     - The maximum gas per block is 3,000,000 gas, which limits the total data that can be stored in a block.
17.
     - While the block size limit is 300,000 bytes, the gas cost to store data near this size would max out the block's gas limit. Therefore, block gas constraints often restrict the size of a transaction more than the byte limit alone.
18. On-chain storage and migrations
19. : once a transaction with a memo is added to a block, the memo data is stored permanently on-chain. During migrations, all transaction data, including the memo, should remain intact, as existing chain data should be preserved once migration is finalized.

Review Transaction

After adding the recipient's address, the user should Review the transaction details to ensure accuracy.

Then, the user will need toApprove the Transaction . Once the user has reviewed the transaction and made any necessary additions, they can proceed by clicking on theApprove Transaction button.

Transaction Confirmation

Upon approval, aTransaction ID is generated, confirming that the transaction has been successfully processed.

Receive Option

Initiate Transaction

If a user wants toReceive money from another user, they should start by locating theTransaction button.

Select Receive Option

Once theTransaction button is found, the user selects the option toReceive money.

QR Code and wallet address

User is redirected to the Receive page, where their QR Code and wallet address can be accessed.

- QR Code can be scanned to send the tokens.
- Wallet address can be copied.

Native Bridge

If users want toNative Bridge tokens from another blockchain, then they will need to choose this option as shown below and follow the needed steps.

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