LI.Fl is live on Solana! LI.Fl REST API offers seamless integration with the Solana blockchain through Allbridge Core. This integration enables users to perform USDC and USDT transfers between Solana and other supported Ethereum Virtual Machine (EVM) compatible chains, including ETH, POL, BSC (only USDT), OPT, AVA, ARB, and BAS.

Note: currently, Solana chain supports only USDC token

In this documentation, we will explore how to use the API for requesting quotes, executing transactions, getting routes, and checking the status of transactions.

## Requesting a Quote

To request a quote for a transaction between Solana and another blockchain, you can use the provide quide. Below is an example of a request to get a quote for transferring 10 USDC from Solana to

Copy constrequest={ fromChain:'SOL', toChain:'POL', fromToken:'EPjFWdd5AufqSSqeM2qN1xzybapC8G4wEGGkZwyTDt1v',// USDC on SOL toToken:'0x2791bca1f2de4661ed88a30c99a7a9449aa84174',// USDĆ on POL fromAmount:'10000000', fromAddress:'YOUR\_SOL\_WALLET\_ADDRESS, toAddress:'YOUR\_EVM\_WALLET\_ADDRESS, fromAmountForGas:37376// amount in fromToken }

The key difference between EVM -> SOL and SOL -> EVM transfers is the structure of thetransactionRequest . For SOL -> EVM transfers, it contains only adata parameter, which represents base64 encoded Solana transaction data:

Copy "transactionRequest": { 

## Executing the Transaction

To execute the transaction, you will need to perform several steps:

- Decode your Solana private key.
- Create a connection to the Solana network 2.
- Decode the transaction data received from the/quotes
- 5. Deserialize the decoded transaction data into aVersionedTransaction
- Sign the transaction with your Solana keypair. Send the transaction to the Solana network.
- 9 Confirm the transaction's status.
- 10.

Copy importsolanaWeb3.f BlockheightBasedTransactionConfirmationStrategy, VersionedTransaction. }from'@solana/web3.is' importbase64from'ethers/lib/utils' importbs58from'bs58'

constkeypair=solanaWeb3.Keypair.fromSecretKey(bs58.decode(YOUR\_SOLANA\_PRIVATE\_KEY))// get Solana keypair

constconnection=newsolanaWeb3.Connection(RPC\_PROVIDER\_URL, 'confirmed')// create a connection constdecodedTx=base64.decode(transactionRequest.data.toString())// decode tx data constdeserializedTx=VersionedTransaction.deserialize(decodedTx)// deserialize decoded tx data into VersionedTransaction

deserializedTx.sign([keypair])// sign the tx with your keypair consttxid=awaitconnection.sendTransaction(deserializedTx,{ maxRetries:5, skipPreflight:true, })// send the tx

awaitconnection.confirmTransaction( { signature:txid, }asBlockheightBasedTransactionConfirmationStrategy, 'confirmed' )// confirm the tx

Getting Routes

Routes provide the necessary information to initiate a transaction request. Here are two quides on how toguest the route and execute it. Here's an example of a typical/routes request from POL to SOL:

Copy { "fromChainId":"POL", "fromAmount":"2000000", "fromTokenAddress":"0x2791bca1f2de4661ed88a30c99a7a9449aa84174",// USDC on POL, "toChainId":"SOL", "toTokenAddress":"EPjFWdd5AufqSSqeM2qN1xzybapC8G4wEGGkZwyTDt1v",// USDC on SOL, "fromAddress":YOUR\_EVM\_WALLET\_ADDRESS, "toAddress":YOUR\_SOLANA\_WALLET\_ADDRESS, "fromAmountForGas":284126, "options": { "slippage":0.03 } }

You can set thefromAmountForGas parameter in/routes or/quotes requests to receive gas on the destination chain. Please note that this value is limited by the Allbridge API, and if it exceeds the limit, the error with the suggested maximum value will be returned

The maximum limit you can receive on the destination chain can be found by calling the Allbridgeoken-info endpoint. ThetxCostAmount.maxAmount parameter dictates the max amount that can be received in native token

To execute theroute, you need to pick onestep fromroutes with thelifi type and make a/stepTransaction call.

To obtain transaction data for execution, you need to provide a fullStep object. Typically, this object is retrieved by calling the/routes endpoint and selecting the most suitableroute. Afterward, you can retrieve the transaction data for each required step using the/stepTransaction endpoint

Here, you can find our full API reference Typical/stepTransaction request will look like the following:

Copy { "type"."lifi", "id":"306d4449-77bf-4e80-9755-2ad4349655b9", "tool":"allbridge", "toolDetails": { "key":"allbridge", "name":"Allbridge", "name":"2000000", "fromToken": { "address":"De2791bca1f2de4661ed88a30c99a7a9449aa84174", "chainld":137, "symbol":"USDC", "decimals": 6, "name":"USD Coin", "priceUSD":"1", "logoURI":https://static.debank.com/image/coin/logo\_url/usdc/e87790bfe0b3f2ea855dc29069b38818.png", "coinkey":"USDC") }, "tromAddress":YOUR\_EVM\_WALLET\_ADDRESS, "slippage":0.03, "toChainld":1151111081099710, "toToken": { "name":"USD Coin", "symbol":"USDC", "decimals": 6, "address":"EPjFWdd5AufqSSqeM2qN1xzybapC8G4wEG6kZwyTDt1v", "chainld":1151111081099710, "logoURI":https://static.debank.com/image/coin/logo\_url/usdc/e87790bfe0b3f2ea855dc29069b38818.png", "coinkey":"USDC"), "tomAddress":YOUR\_EVM\_WALLET\_ADDRESS, "slippage":0.03, "toChainld":1151111081099710, "logoURI":https://static.debank.com/image/matic\_table/tassets/master/blockchains/ethereum/assets/0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48/logo.png", "priceUSD":"1", "coinKey":"USDC"}, "boAddress":YOUR\_SOL\_WALLET\_ADDRESS}, "estimate": { "tool":'allbridge", "fromAmount":2000000", "fromAmountUSD":"2.00", "toAmountUSD":"2.00", "toAmountUSD":"3.7", "priceUSD":"3.7", "goJURI":"https://static.debank.com/image/matic\_token/logo\_url/matic/6f5a6b6f0732a7a23f13fbd7804d357c.png", "coinkey:":MATIC", "priceUSD":"0.555942", "logoURI":"https://static.debank.com/image/matic\_token/logo\_url/matic/6f5a6b6f0732a "logoURI:"https://raw.githubusercontent.com/trustwallet/assets/master/blockchain/sethereum/assets/0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48/logo.png", "priceUSD":"1", "coinKey":"USDC" }, "toAddress":YOUR\_SOL\_WALLET\_ADDRESS }, "estimate":{ "tool":"allbridge", "fromAmount":"2000000", "fromAmountUSD":"2.00", "toAmount":"1992509", "toAmountMin":"1992509",

The response from such a call will have the same type as the/quote response.

Checking the Status of a Transaction

To check the status of a Solana transaction, you can follow the provided uide, which will help you monitor the progress and confirmation of your transaction on the Solana blockchain.

Last updated1 month ago On this page \*Requesting a Quote \* Getting Routes \* Getting a Transaction to execute \* Checking the Status of a Transaction

Was this helpful? Export as PDF