

Cross Chain Swap Fee

Get the cross chain swap fee, paid in native gas on the source chain. Use `quoteLayerZeroFee()` to get the fee required to call `swap()`. The fee ensures the cross chain message is paid for.

```

Copy // Router.sol method to get the value for `swap()` function `quoteLayerZeroFee( uint16 _dstChainId, uint8 _functionType, bytes calldata _toAddress, bytes calldata _transferAndCallPayload, Router.IzTxObj memory _lzTxParams )` external view override returns (uint256,uint256)

```

For the `uint8 _functionType` argument use 1 for `swap()` s. Here is an [explanation](#) of the [other function types](#).

Estimate the fee for the message cost of the `swap()` using offchain code like this:

```

Copy `let quoteData = await router.quoteLayerZeroFee( dstChainId, // destination chainId functionType, // function type: see Bridge.sol for all types toAddress, // destination of tokens "0x", // payload, using abi.encode() ({ dstGasForCall:0, // extra gas, if calling smart contract, dstNativeAmount:0, // amount of dust dropped in destination wallet dstNativeAddr: taskArgs.dstNativeAddr // destination wallet for dust }) )`

```

`quoteLayerZeroFee()` estimates the message fee and returns an amount of wei in source gas token. Use this as the { value: xxxx } passed to the `actualSwap()` method when you perform the swap.

Note: `quoteLayerZeroFee()` returns a 2-value tuple:

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Copy // the message fee is the first value in the tuple. `let feeWei = quoteData[0]`

```

Use `feeWei` to call `swap()`:

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Copy // ethers.js example: call `swap()` with the `feeWei` value from `quoteLayerZeroFee` // execute a Stargate swap on the Router.sol contract `await router.swap( dstChainId, srcPoolId, dstPoolId, payable(refundAddress), qty, qtyMin, { dstGasForCall:0, dstNativeAmount:0, dstNativeAddr:"0x"}, // IzTxObj toAddress, "0x", // no payload { value: feeWei } )` <----- `feeWei` from `quoteData[0]` from `quoteLayerZeroFee()`

```

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