

## Request a Route

Before any swap or bridging can happen, you need to request the best route from our smart routing API. To request possible routes, please follow the instructions.

Step 1: Build a RoutesRequest object

TheRoutesRequest object describes a desiredany-to-any transfer and contains all information necessary to calculate the most efficient routes. It is defined by the following interface.

...

Copy interfaceRoutesRequest{ fromChainId:number; fromAmount:string; fromTokenAddress:string; fromAddress:string; toChainId:number; toTokenAddress:string; toAddress:string; options?:RouteOptions; }

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It is important to note that thefromTokenAddress must be the correct address for the specifiedfromChainId as the token address changes for a given chain. The same has to be considered for thetoTokenAddress and thetoChainId . The optional propertiesfromAddress andtoAddress specify where the token comes from and where the SDK will send it to once the transaction is completed.

Further specifications using RouteOptions

Please take a look at Set Route Options to get access to preference patterns, whitelisting, and blacklisting of cross-chain bridges and exchanges.

Step 2: Call getRoutes

After creating theroutes Request object, you can pass it to theget Routes functions to start calculating the routes.

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Copy constresult=awaitlifi.getRoutes(routesRequest) constroutes=result.routes

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getRoutes returns aRoutesReponse which contains a list of routes for the described transfer. If anorder was specified as part of the RouteOptions object, the resulting list would be sorted accordingly.

Step 3: Done, you can now execute the route

LearnExecute a Route (Transfer)

Example code snippet

The following code snippet requests Routes for the following statement:

Bridge and swap 1 USDT on xDai to the maximum amount of USDC on BSC.

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Copy constrouteOptions={ slippage:3/100,// 3% order:'RECOMMENDED' }

constroutesRequest={ fromChainId:100, fromAmount:'1000000',// 1USDT fromTokenAddress:'0x4ecaba5870353805a9f068101a40e0f32ed605c6', toChainId:56, toTokenAddress:'0x8ac76a51cc950d9822d68b83fe1ad97b32cd580d', options:routeOptions, }

constresult=awaitlifi.getRoutes(routesRequest) constroutes=result.routes

Last updated8 months ago On this page \*Step 1: Build a RoutesRequest object \* Step 2: Call getRoutes \* Step 3: Done, you can now execute the route \* Example code snippet

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