

getTradeData

This function uses the SDK's matching algorithm to find a trade route given a set of trading parameters.

...

```
Copy public async getTradeData( sourceToken: string, targetToken: string, amount: string, tradeByTargetAmount: boolean,
filter?: (rate: Rate) => boolean )
```

...

Name	Type	Description
sourceToken	token address	The address of the token being swapped in.
targetToken	token address	The address of the token received.
amount	string (number)	The number of tokens being traded in, if using tradeBySourceAmount, or the number of tokens to receive.
tradeByTargetAmount	boolean	True: Generates the trade using tradeByTargetAmount False: Generates the trade using tradeBySourceAmount
filter list	(optional)	This optional parameter forces the route to only include strategies that allow trading at the specified rate. Rate is calculated as input/output.type
Rate	= { input: BigNumber; output: BigNumber; }	

Returns

This function returns the trade route, including the following parameters:

Name	Type	Description
tradeActions	list	A list of trade actions that can be passed into composeTradeTransaction, a function that returns an unsigned transaction.
actionsTokenRes	list	A list of trade actions in human-readable format.
totalSourceAmount	string (number)	The total amount of source tokens going into the trade.
totalTargetAmount	string (number)	The total number of target tokens received by the trade.
effectiveRate	string (number)	The effective rate of exchange, calculated from the total input vs total output.

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