Bridging

How to implement Bridging

Summary

1 Fetch the Price

This optional step is quicker than fetching an executable quote but invaluable when crafting a snappy user experience. In this step we'll fetch the price to display a quote preview to the user. This can be skipped if the bridge is on the server without user interaction. 2 Fetch the Quote

In this step we'll fetch a full quote that expires after 30s. It will be a complete quote with all the details required to execute it. 3 Execute the Quote

Once we have the quote all that's left to do is execute the quote and display a progress state to the user.

Fetch the Price

The Price is a lightweight quote, excluding steps and calldata but it includes a preview of what the full quote might contain. Prices are subject to change once you get the quote so you should handle price changes accordingly. Once you determine where to bridge from and to, the amount and the currency then you can pass everything into the teleptice or the usePrice hook depending on if you're using the sdk or the ui hooks:

Fetch the Quote

If you followed the previous step, you can pass that same data into the getQuote action or useQuote hook.

Note - Quotes can go stale after 30 seconds. Clients should regularly fetch fresh quotes so that users are always submitting valid transactions. Learn more about Relay quotes.

Execute the Quote

After getting the quote all that's left is to execute the quote and render the progress to the user. Follow the code snippets below to execute the quote:

sdk hooks Copy import { getClient} from '@reservoir0x/relay-sdk' import { useWalletClient} from 'wagmi' const { data: wallet} = useWalletClient () const quote= await getClient ()?. actions. getQuote ({ ... options }) await getClient ()?. actions. execute ({ quote, wallet, onProgress: (steps, currentStep, currentStepltem, fees, details, txHashes) => { console. log (steps, currentStep, currentStepltem, fees, details, txHashes)}}) While the quote is being executed if you're rendering the quote in an interface you may want to display progress to the user. There's a provided progress callback to get the updated state of execution. Learn more about the progress statehere.

☐ Verify that the user has enough balance on the origin chain to cover the full bridge amount + fees. Check out offees doc
for more details on calculating the fees. □ Have the Relay SDK set up and the Relay hooks package installed if applicable
☐ Ensure the user is on the correct chain (it should match the chainId you get the quote from) ☐ Handle any errors that may
come about ☐ Render the progress of the bridge to provide a best in class user experience Cross-Chain Execution
Swapping twitter Powered by Mintlify

On this page *Summary *Fetch the Price *Fetch the Quote *Execute the Quote *Preflight Checklist