Bridge AVAIL to Ethereum using the VectorX bridge

Introduction

The Avail team has been hard at work in partnership with Succinct labs(opens in a new tab) to develop a trust-minimized bridge between Avail DA and Ethereum.

Enter VectorX. VectorX uses zkSNARKs to enable an efficient and trust-minimized bridge to pass arbitrary messages between Avail DA and Ethereum, which enables use cases like token bridging.

This is a non-technical tutorial focussed on actually using the bridge via a convinient web interface built by Avail.

Frequently Asked Questions (FAQs) 1. Will my bridged tokens automatically appear in my wallet on the other side? 2. * No. 3. * Your funds will take a couple of hours to bridge, following which you need to go to the bridge UI once again and manually 4. * claim your AVAIL tokens on the other side. 5. Which chain should I claim from? 6. * The Avail bridge UI currently only supports bridging AVAIL tokens between Avail DA and Ethereum. 7. * If you initiate the bridging process from Avail DA and want to claim your AVAIL tokens on Ethereum, you need to go to Transactions 8. * tab and claim AVAIL by 9. * making sure your EVM wallet is connected to Ethereum mainnet 10. * , and clicking the Claim Ready 11. * button. 12. * Conversely, if you initiate the bridging process from Ethereum and want to claim your AVAIL tokens on Avail DA, 13. * make sure your Avail wallet is connected to Avail DA mainnet 14. * , and click the Claim Ready 15. * button. 16. I am not able to claim tokens even though a lot of time has passed? 17. * Please note that while users may be facing some bugs in the bridge UI, user funds are 100% safe will 18. * be claimable soon. We are working on brushing up the UI and will fix all the bugs soon. 19. Will I need funds on the chain where I am claiming my tokens? 20. * Yes, since you're effectively executing a transaction on the chain where you're claiming your tokens. 21. * This means if you're bridging from Avail DA to Ethereum, you will need some ETH on Ethereum mainnet. 22. * On the other hand, if you're bridging from Ethereum to Avail DA, you will need some AVAIL on Avail DA mainnet. 23. What if I have submitted a claim 24. transaction on the wrong network? 25. * We have received some reports of an edge-case where it is possible for users to sign the claim transaction 26. * on an EVM network like Avalanche 27. * through our UI. Please note that this is a bug, and users should 28. * only sign transactions on Avail DA or Ethereum mainnet. 29. * If you have signed a transaction on the wrong network, you might need to clear the bridge UI's cache data 30. * in your browser. 31. * You can find instructions on how to clear cache for a particular website in this blog(opens in a new tab) 32. * .

Using the Bridge

⚠ BEFORE YOU BEGIN You need to manually claim your AVAIL tokens on either of the chains, once they've been bridged. This means you'll also need a small amount of ETH on Ethereum mainnet to pay for the gas fees to call the claim function on the AVAIL ERC-20 contract. Please keep this in mind and have some ETH ready on the EVM wallet address that you connect to the bridge.

Go to the official avail-bridge

UI

Go to bridge.availproject.org(opens in a new tab) , and then connect an Avail wallet, and an EVM wallet to the website.

Please note that this is required because Avail DA and Ethereum use two different address formats. The funds on Ethereum will be claimable only by the EVM address you connect here.

Initiate the bridging, and wait

Bridging AVAIL from Avail DA to Ethereum typically takes 1-2 hours. You can check the Transactions tab in the UI to see the status of your transaction. Wait for the transaction status to change to Claim Ready .

Claim your funds

You will need to manually claim AVAIL on Ethereum with the same EVM address you connected earlier. used in step 1 . Click on Claim Ready and approve the transaction in your wallet. Your AVAIL tokens on Ethereum mainnet will then be transferred to your account.

Please note that you are executing a transaction on Ethereum in this step, so you will need to have some ETH in your wallet to pay for the gas fees. This exact process can be reversed to bridge AVAIL from Ethereum to Avail DA.

Balance Transfers Use a ledger wallet on Avail DA