

Ethereum and the broader web3 ecosystem are moving fast towards a multi-chain future. Ethereum, having chosen a rollup centric approach to scaling already boasts more than 50 rollups in production and rollup as a service tools making it trivial to launch application specific rollups. More and more users are interacting with apps on multiple chains and are looking for a seamless way to perform actions across multiple execution environments. However, the user experience of the multi-chain world is mediocre at best with users needing to understand an array of complex technologies such as key, wallets, bridges, RPCs, gas and more.

Frontier Research has put together a framework called

[Chain Abstraction Key Elements \("CAKE framework"\)](#)

to help developers think through the requirements of providing a good user experience consistent with the Chain Abstraction philosophy.

Introducing the CAKE Working Group for Chain Abstraction

There have been several independent efforts to develop and introduce standards which would improve interoperability, developer experience, and user experience. These include Account Abstraction (

[EIP-4337](#)

), Smart Wallets (

[ERC-7579](#)

,

[ERC-7555](#)

[ERC-6900](#)

), Intents (

[ERC-7521](#)

), Cross-chain (

[xERC20](#)

).

Although each of these efforts are worthwhile in their own right, we believe researchers and developers alike would benefit from forming a shared perspective of interaction across the stack and a consensus view on the requirements for message passing standardization between components.

As such, we are introducing the Chain Abstraction Working Group to host discussions and workshops regarding research and standardization across all slices of the CAKE.

Past Events

Hosted a one day conference at ETHDenver on Feb 28th to deep dive into the CAKE framework with teams building across all the slices.

Hosted initial round table workshops at ETHDenver on Feb 29th and ETHLondon on Friday, March 15 to put the icing on the cake.

Denver

Feb 29th:

<https://lu.ma/CA-standards-workshop>

London

March 15th:

<https://lu.ma/CA-standards-workshop-london>



Notes

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<https://hackmd.io/DWu3qD-PQCOOn5QaEkuT5w>

Values and Commitments

- We believe web3 can only achieve its full potential if it is easier to develop and use a web3 application than a web2 application.
- We commit to contributing time and participating in discussions to provide feedback on the development of standards in good faith.
- We will strive to contribute our commercial insights and promptly implement the standards put forward by the working group as is commercially viable.
- We believe

standards development is a common good.

Great standards speak for themselves and should not be seen as a branding opportunity.

- Most importantly, we believe the cake is real and everything is cake.

Bakers

- 1inch
- Across
- Agoric
- Alchemy
- Anoma
- Arbitrum
- Biconomy
- Blocknative
- Bloxroute
- Brink
- Celestia
- Conduit
- Connex
- Consensys
- Cowswap
- DapDap
- EigenLayer
- Enso
- Espresso Systems
- Essential
- Etherspot
- FastLane

- Flashbots
- Frontier Research
- Halliday
- Interop Labs
- Kolibrio
- Li.Fi
- Near Foundation
- Phala Network
- Privy
- PropellerHead
- Reservoir
- Seda
- Sequence
- Skip
- Socket
- Sommelier
- UseCapsule
- WalletConnect
- Wintermute