Point of Contact:

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Proposal Summary

Following Uniswap's successful deployment on the Scroll testnet, we propose that the Uniswap DAO recognizes Scroll's upcoming mainnet deployment of Uniswap V3 as the official deployment.

Overview of our Proposal

We propose that the Uniswap DAO recognizes Scroll's upcoming mainnet deployment of Uniswap V3 as the official - canonical deployment. Uniswap V3 has already been deployed to Scroll's testnet, and the Uniswap router has processed over 1.8M transactions there.

- Scroll is a bytecode equivalent zk-rollup, a native zkEVM scaling solution for Ethereum.
- Scroll is an open-source project developed in collaboration with the Ethereum Foundation Privacy and Scaling Explorations organization. It was built with the community, for the community.
- Our community ethos and vision are aligned with Ethereum. We are committed to a secure, decentralized, censorship-resistant, and efficient future that Ethereum offers through our plans to decentralize Scroll sequencers and provers.

We propose that Uniswap will showcase this by integrating Scroll into its user interface.

Motivation

We believe that Uniswap being deployed on multiple Ethereum L2s is integral for encouraging competition and diversity of technical solutions to scale Ethereum. We believe that Uniswap's community and the ecosystem that Scroll strives for are closely aligned. Both projects are building trustless, decentralized, and secure financial infrastructure that is accessible to anyone, regardless of merit or location. Deploying to Scroll offers many benefits, including significant user savings, an expanded user base, capturing the zkEVM market, and fostering L2 native innovation.

- This deployment positions Uniswap as an early mover and captures a rapidly growing market as the Ethereum ecosystem gradually shifts to zkEVMs.
- Uniswap on Scroll will integrate closely with Scroll's rapidly growing ecosystem. Dozens of projects have committed to deploying on our mainnet, and many are deployed on our testnet: AAVE, Lens, the Graph, Covalent, Safe, and Etherscan to name a few. Given the excitement around Scroll and current usage of our testnet, we expect hundreds of projects to deploy on our mainnet post-launch.
- Importantly, Uniswap on Scroll will propel L2 DEX innovation. We are on the brink of uncovering L2 native use cases that have not been feasible on Ethereum L1. Scroll will bring new developers and ecosystem integrations to Uniswap.

Partner Details

Scroll

This proposal and the deployment of Uniswap contracts will be performed by the Scroll Foundation, a foundation registered in the Republic of Seychelles.

Delegate Sponsor

In addition, Scroll is working with theMichigan Blockchain, which will act as the delegate sponsor for this proposal.

- Proposers: Scroll Foundation
- Proposal Sponsor: Michigan Blockchain
- Deployer: Scroll Foundation
- Bridge Provider: Scroll Native Bridge

Conflict of Interest Declaration

There are no existing financial or contractual relationships between Scroll and any of Uniswap's legal entities, including Uniswap Labs, UNI tokens, nor investments of Uniswap Labs Ventures.

Additional information for cross-chain deployments

Our focus has always been on providing the best possible experience for developers, and we have successfully delivered on this promise on our testnet, which we will continue to do on mainnet. We are proud to say that we are bytecode-equivalent, meaning that migrating dapps from any EVM chain is easy and hassle-free.

- EVM-equivalent:

Scroll uses a forked version of Geth, enabling seamless infrastructure migration. Any application can be migrated to Scroll without code changes and additional audits.

- Developer friendly:

Scroll will support all existing development tools, including debuggers. Developers can work with a familiar development environment. No bytecode re-audits will be required minimizing the risk surface tremendously.

- Security:

Scroll inherits most of EVM's features and security, which is by far the most battle-tested smart contract infrastructure in the entire space.

- Decentralization:

Scroll is leading the way in developing a decentralized prover network and has already committed to outsourcing proving. By decentralizing proof generation to the community, Scroll can achieve efficient proof generation and establish a more robust ecosystem.

We have always been committed to building in the open, starting from our collaboration with EF's PSE team, and we remain closely connected to the Ethereum community—in fact, our team has contributed ~50% of the upstream PSE zkEVM codebase over the past two years. Furthermore, we have been open source from day 1, have a strong in-house security team paired with rigorous audits, and are aiming to have third-party provers upon our mainnet genesis block and a gradual decentralization of our sequencer network.

The Scroll community has been testing the Uniswap V3 deployment onScroll's testnet for four months, often exceeding 200,000 transactions per day - more than many other L2s. In fact, our testnet community has successfully processed 1.8M transactions through the Uniswap V3 router already. Once we launch on our mainnet in August this year, we expect Uniswap to be joined by other time-tested DeFi protocols.

Success Criteria

Deployment of Uniswap on Scroll will:

- Increase Uniswap TVL, targeting $100M within two months of deployment
- Grow Uniswap order volume
- Enable listing of new assets on Uniswap that are unique to Scroll

Moreover, Scroll will bring its dedicated and expanding developer community to Uniswap, thereby boosting the growth of Uniswap's developer community.

The best way to measure success for Uniswap on Scroll is to focus on TVL and transaction volumes. We think that Scroll can deliver an additional $100M of TVL to Uniswap within two months of launch.

Protocol Security

ZK-Rollup is currently the most secure Layer 2 scaling solution. On the premise of inheriting the security of Ethereum, it relies exclusively on cryptography rather than unreliable crypto-economics.

Scroll has a trustless Layer 1 <> Layer 2 canonical bridge, which supports arbitrary message delivery. The bridge is part of the roll-up mechanism, verified by the smart contract and the zkEVM, which is much more secure than relayer-based bridges.

Security is the first priority for us. Scroll implements the EVM, which is well-specified and battle-tested. Additionally, we are working with two external auditing companies to audit our bridge code, and we have an in-house security team that continuously reviews our codebase.

We plan to launch with a timelock delay and a security council to control privileged functions and contract upgrades. Finally, shortly after launch, we will introduce distributed sequencer operators.

Deployment

After reviewing the comments in the RFC, we will submit a Temperature Check proposal. Then we will move forward with deploying Uniswap V3 on our Scroll mainnet, following which we will submit the Governance Proposal with the addition of the deployed contract addresses. Since we are fully compatible with EVM, it is effortless to deploy on Scroll. We expect the full deployment will take few hours.

The approval of this proposal by Uniswap governance will lead the following Uniswap v3 contracts [to be filled in after deployment] to be deemed as the canonical Uniswap deployment on Scroll. This deployment will be subject to Ethereum Layer 1 Uniswap Protocol governance. The text record of the uniswap.eth ENS subdomain titled v3-deployments.uniswap.eth will be amended to reference the Uniswap v3 Factory contract on Scroll following the process outlined here: Post-BSL Cross-chain Deployment Process & New Uniswap.eth Subdomain

Timeline

- July 2023 - Request for Comment (RFC)
- August 2023 - Temperature Check
- September 2023 - UniV3 Contract Deployment
- September 2023 - Bridge Deployment
- September 2023 - Governance Proposal

Request For Comments

We are looking forward to receiving feedback from the community. Please limit your comments to constructive suggestions that can contribute value to the proposal. Low-value comments have the potential to harm the proposal, so it’s important to focus on constructive feedback only.