

Summary

Enable a 1bp, 1tick fee tier on optimism (L2).

The rationale and initial temperature check for this proposal can be found here: [Deploy a 1bp fee tier to UniswapV3 on Optimism](#)

Process

The complete process is described in Uniswap's Governance Reference[here](#) and can be summarized as:

- A proposal is posted in GovernorBravo on Mainnet (GovernorAlpha for Kovan)
- The proposal is voted, queued and executed via Timelock.
- When all the conditions are met and is executed, Timelock contract, which is authorized to execute administrative actions on the protected contracts, will execute

the requested actions in the proposal.

Since this proposal needs to be executed on a different network, in this case L2 Optimism, the executing action needs to be forwarded to the proper target. In order to do that, Timelock will send the transaction to OVM L1CrossDomainMessenger (Optimism mechanism to forward transactions from L1 to L2).

The transaction will then be sent via Optimism contracts to Uniswap's `CrossChainAccount`, that is the privileged contract that can execute administrative tasks on protected contracts on L2 Optimism, and `CrossChainAccount` will forward the transaction, if it has the right origin, to the target Contract, in this case to `UniswapV3Factory`.

The sequence of contract interactions is the following:

- `GovernorBravo.propose(targets, values, signatures, calldatas, description)` ◦ where `targets` are the address of the contracts to interact with, ◦ `calldatas` the calldatas to execute on those contracts, and ◦ `description`, the description of the proposal (or name)
- `OVM_L1CrossDomainMessenger.sendMessage(target, calldata, gas)` ◦ where `target` is the address of the contracts to interact with on L2, ◦ `calldata` the calldata to execute on that contract, and ◦ `gas`, the gas to be used on that transaction
- `CrossChainAccount.forward(target, calldata)` ◦ where `target` is the address of the Uniswap contracts to interact with on L2, and ◦ `calldata` the calldata to execute on that contract
- `UniswapV3Factory.enableFeeAmount(fee.tickSpacing)` ◦ where `fee` is the fee to enable (in hundredths of a bip), and ◦ `tickSpacing` the spacing between ticks

Compiling all the calls together it can be seen as:

```
GovernorBravo.propose(
[OVM_L1CrossDomainMessenger address],
[ 0 ],
[ "" ],
[ encodedCalldata(
OVM_L1CrossDomainMessenger.sendMessage(
CrossChainAccount address,
encodedCalldata(CrossChainAccount.forward(
UniswapV3Factory address,
encodedCalldata(
UniswapV3Factory.enableFeeAmount(
100,
1
)
)
)
),
8000000
) ],
"Enable 1bp fee tier on Optimism"
)
```

Test network execution (Kovan)

Proposer Address: 0xF526Eb7D2d4445FA8d258959A000400cca4A93f4

Addresses

- GovernorAlpha (No GovernorBravo in kovan): 0x5e4be8bc9637f0EAA1755019e06A68ce081D58F ◦ <https://kovan.etherscan.io/address/0x5e4be8bc9637f0EAA1755019e06A68ce081D58F>
- OVM_L1CrossDomainMessenger: 0x4361d0F75A0186C05f971c566dC6bEa5957483fD ◦ <https://kovan.etherscan.io/address/0x4361d0F75A0186C05f971c566dC6bEa5957483fD>
- CrossChainAccount: 0x3D7E0d4BD24F556767ccFC9c54092447BA88e926 ◦ <https://kovan-optimistic.etherscan.io/address/0x3D7E0d4BD24F556767ccFC9c54092447BA88e926>
- UniswapV3Factory: 0x1F98431c8aD98523631AE4a59f267346ea31F984 ◦ <https://kovan-optimistic.etherscan.io/address/0x1F98431c8aD98523631AE4a59f267346ea31F984>

Proposal

[illegible]

Proposal's calldata dissection

- [illegible]

Transactions

- [x] Post Proposal ◦ Transaction: <https://kovan.etherscan.io/tx/0x18013fbc91cd67beff8b7d5eb576e2fb2c03d266fdaa83e47c34ec6e09fa3644> ◦ Proposal ID: 2
- [x] CastVote ◦ Transaction: <https://kovan.etherscan.io/tx/0xb7f485094d778a967b61d64e78439e6dd8d6f4704f8d3de7de7db54994e57ff>
- [x] Queue: ◦ Transaction: <https://kovan.etherscan.io/tx/0xf24bc0902bcea7e16adfe61419177b66ff074b74797c60bf7e4dfb65c490fe17>

• [x] Execute: ◦ Available since: 1655765068 (GMT: Monday, June 20, 2022 10:44:28 PM) ◦ Kovan Transaction: <https://kovan.etherscan.io/tx/0xece5b14c411777a5d17c8eb0fda582785033a7ec4676a1786ce2e9dfa83b76a1> ◦ Kovan-Optimism Transaction: <https://kovan-optimistic.etherscan.io/tx/0x21e3f72a4b907461e0021f38f8da59d33e221a501717a2852df743a8b2839c1e4>

Mainnet execution

Proposer Address: 0x7B3ee5816a61Fe182Fd7f89844a2BAFdB84AE5b2

Addresses

• GovernorBravo: ◦ 0x408ED6354d4973f66138C91495F2f2FCbd8724C3 ◦ <https://etherscan.io/address/0x408ED6354d4973f66138C91495F2f2FCbd8724C3>

- OVM_L1CrossDomainMessenger: 0x025ace71c97B33Cc4729CF772ae268934F7ab5fA1 ◦ <https://etherscan.io/address/0x025ace71c97B33Cc4729CF772ae268934F7ab5fA1>

- CrossChainAccount: ◦ 0xa1dD330d602c32622AA270Ea73d078B803Cb3518 ◦ <https://optimistic.etherscan.io/address/0xa1dd330d602c32622aa270ea73d078b803cb3518>

- UniswapV3Factory: ◦ 0x1F98431c8aD98523631AE4a59f267346ea31F984 ◦ <https://optimistic.etherscan.io/address/0x1F98431c8aD98523631AE4a59f267346ea31F984>

Proposal

[illegible]

Proposal's calldata dissection

[illegible][illegible][illegible]

[Link to Snapshot vote will be available here shortly]