Update Mid-TVL cToken Implementations

Updated as of block 19334077 at 2/29/2024, 10:31:23 AM ET

• ID: 101

• Proposer: <u>0x589CDCf60aea6B961720214e80b713eB66B89A4d</u>

• Start Block: 14611899 (4/18/2022, 6:50:14 PM ET)

• End Block: 14631609 (4/21/2022, 8:52:40 PM ET)

• Targets: <u>0x95b4eF2869eBD94BEb4eEE400a99824BF5DC325b</u>;

0xFAce851a4921ce59e912d19329929CE6da6EB0c7;

0x70e36f6BF80a52b3B46b3aF8e106CC0ed743E8e4;

0x12392F67bdf24faE0AF363c24aC620a2f67DAd86;

0x35A18000230DA775CAc24873d00Ff85BccdeD550

Forum Post

Forum post is present here: Forum Post

Table of contents

- Proposal Text
- Checks
 - Checks Compound Proposal Details Passed

Proposal Text

Update Mid-TVL cToken Implementations

Summary

This proposal is a patch developed by Equilibria which updates the cToken implementation contract for mid TVL assets. The new implementation has been deployed to 0x3363BAe2Fc44dA742Df13CD3ee94b6bB868ea376.

Changelog

These changes implement the following:

- Upgrade the Solidity version of the cToken and related contracts to 0.8.10 all contracts in the repo were changed to 0.8.10 but only the cTokens will be upgraded as part of upcoming governance proposals. This is due to the complexity of having multiple Solidity versions in the same repo.
- Remove the usage of SafeMath and CarefulMath in favor of Solidity 0.8's checked math Solidity will now automatically revert when math errors occur (overflows, division by zero, etc)
- Remove the custom errorCode return values in favor of reverts and custom errors this allows for a more structured way to deal with errors rather than enum or string comparisons.

The last batch of cTokens will be upgraded in a future proposal if this one passes and causes no issues.

The previous upgrade can be seen here: Proposal 96

Development

The code changes can be viewed here: Pull Request #152.

Audits of these changes were completed by ChainSecurity and OpenZeppelin and all issues were either fixed or out of scope for this change. For further discussion, please view the <u>Community Forum thread</u>.

Checks

Checks Compound Proposal Details Passed

Info:

- **1-** Function _setImplementation(address,bool,bytes) is removed from 0x95b4ef2869ebd94beb4eee400a99824bf5dc325b contract
- **2-** Function _setImplementation(address,bool,bytes) is removed from 0xface851a4921ce59e912d19329929ce6da6eb0c7 contract
- **3-** Function _setImplementation(address,bool,bytes) is removed from 0x70e36f6bf80a52b3b46b3af8e106cc0ed743e8e4 contract
- **4-** Function _setImplementation(address,bool,bytes) is removed from 0x12392f67bdf24fae0af363c24ac620a2f67dad86 contract
- **5-** Function _setImplementation(address,bool,bytes) is removed from 0x35a18000230da775cac24873d00ff85bccded550 contract