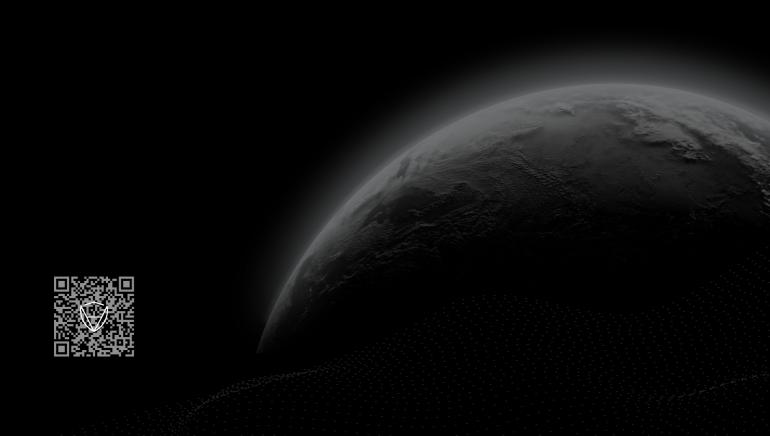


Security Assessment

Colend - Audit

CertiK Assessed on Apr 23rd, 2024







CertiK Assessed on Apr 23rd, 2024

Colend - Audit

The security assessment was prepared by CertiK, the leader in Web3.0 security.

Executive Summary

TYPES ECOSYSTEM METHODS

DeFi EVM Compatible Manual Review, Static Analysis

LANGUAGE TIMELINE KEY COMPONENTS

Solidity Delivered on 04/23/2024 dad86c82e625236135125fc410352d43fdc6fcc7

CODEBASE

https://github.com/Colend-Protocol/aave-v3-core/tree/feat/pyth-oracle

View All in Codebase Page

Vulnerability Summary

Total Fi	ndings	O Resolved	O Mitigated	1 Partially Resol	4 ved Acknowledged	O Declined
■ 0 Critical				a pl	ical risks are those that impact the safe atform and must be addressed before uld not invest in any project with outsta s.	launch. Users
2 Major	1 Partially	Resolved, 1 Ackno	owledged	erro	or risks can include centralization issu rrs. Under specific circumstances, thes lead to loss of funds and/or control of	se major risks
■ 0 Medium					dium risks may not pose a direct risk to they can affect the overall functioning	
1 Minor	1 Acknowle	Minor risks can be any of the above, but on a smaller scale. They generally do not compromise the overall integrity of the project, but they may be less efficient the other solutions.		the overall		
■ 2 Informationa	2 Acknowle	edged		impo	rmational errors are often recommend rove the style of the code or certain op in industry best practices. They usuall overall functioning of the code.	perations to fall



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Appendix

Disclaimer



CODEBASE | COLEND - AUDIT

Repository

https://github.com/Colend-Protocol/aave-v3-core/tree/feat/pyth-oracle



AUDIT SCOPE | COLEND - AUDIT

8 files audited • 3 files with Acknowledged findings • 5 files without findings

ID	Repo	File		SHA256 Checksum
• ECP	Colend- Protocol/aave- v3-core		contracts/protocol/libraries/helpers/E rors.sol	f04e7936e4a32b86dead5e7b973934c66d443 64b58c2ff0a5a2037563a8e198b
• PAP	Colend- Protocol/aave- v3-core		contracts/protocol/configuration/Pool AddressesProvider.sol	e11ccebb0e91715e6b62d2e8f972a2e84f41b e8554e764248b690bc40d69bf53
• AOC	Colend- Protocol/aave- v3-core	e c	contracts/misc/AaveOracle.sol	457668dcfe844e2f51aa022e9c300d4dbca54 23be1fbb6207c8a25eead5d10b1
• IPA	Colend- Protocol/aave- v3-core		contracts/interfaces/IPoolAddresses Provider.sol	639f0ac55ef43aadf47a23a31d9bdb6d454c0f ee179069d1804a361163aac51f
• IAO	Colend- Protocol/aave- v3-core	C	contracts/interfaces/IAaveOracle.sol	59a9814ce5c41c0d0472f0662e66a3d4939fe 32a8ac63f26fda53fb1afd127a9
• IPC	Colend- Protocol/aave- v3-core	C	contracts/dependencies/pyth/IPyth.s	8588ed8a28374b474390c8182549e4973b46 b2259e50a7e9a148384c5eeb2420
• IPE	Colend- Protocol/aave- v3-core		contracts/dependencies/pyth/IPythE vents.sol	06580966cfb3cdf1357a960450d7549c801f64 9c1df5f2ddfa33ff7386685e0e
• PSC	Colend- Protocol/aave- v3-core		contracts/dependencies/pyth/PythStr ucts.sol	46b5413a78f67cd4ef527ebad1fd913b572a67 ac9201567dd67a84db4c544e60



APPROACH & METHODS | COLEND - AUDIT

This report has been prepared for Colend to discover issues and vulnerabilities in the source code of the Colend - Audit project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Manual Review and Static Analysis techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- · Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Testing the smart contracts against both common and uncommon attack vectors;
- Enhance general coding practices for better structures of source codes;
- · Add enough unit tests to cover the possible use cases;
- · Provide more comments per each function for readability, especially contracts that are verified in public;
- · Provide more transparency on privileged activities once the protocol is live.



REVIEW NOTES | COLEND - AUDIT

Differential Audit

The main branch of the project, [https://github.com/Colend-Protocol/aave-v3-core/tree/feat/pyth-oracle], is forked from the AAVE project: $[aave-v3-core \ v1.19.2]$ at [https://github.com/aave/aave-v3-core/releases/tag/v1.19.2].

The code modification made by the client integrates the Pyth Price Oracle and ensures compatibility with the Core blockchain network.

The scope of the audit encompasses the differences between the Colend and AAVE (aave-v3-core v1.19.2) code, and these are detailed in the report.



FINDINGS | COLEND - AUDIT



This report has been prepared to discover issues and vulnerabilities for Colend - Audit. Through this audit, we have uncovered 5 issues ranging from different severity levels. Utilizing the techniques of Manual Review & Static Analysis to complement rigorous manual code reviews, we discovered the following findings:

ID	Title	Category	Severity	Status
CPB-01	Centralization Related Risks	Centralization	Major	Acknowledged
RLC-01	Protocol Can Be Attacked Due To The Potential Rounding Issue If Total Supply Of A Market Is Empty	Logical Issue	Major	Partially Resolved
AOC-01	Third-Party Dependency Usage	Design Issue	Minor	Acknowledged
AOC-02	Unuse Confidence Intervals	Design Issue	Informational	Acknowledged
ECP-01	Unused Constant Variable	Coding Style	Informational	Acknowledged

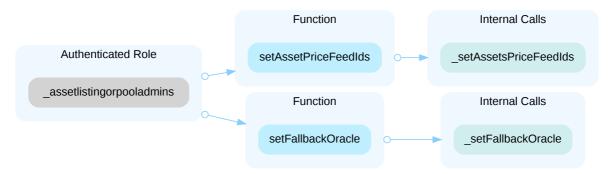


CPB-01 CENTRALIZATION RELATED RISKS

Category	Severity	Location	Status
Centralization	Major	contracts/misc/AaveOracle.sol: 65, 73; contracts/protocol/ configuration/PoolAddressesProvider.sol: 48, 58, 65, 81, 9 3, 105, 117, 129, 141, 153, 165	Acknowledged

Description

In the contract AaveOracle the role _assetlistingorpooladmins has authority over the functions shown in the diagram below. Any compromise to the _assetlistingorpooladmins account may allow the hacker to take advantage of this authority and set asset price feed IDs and set fallback oracle.



In the contract PoolAddressesProvider the role _owner has authority over the functions shown in the diagram below. Any compromise to the _owner account may allow the hacker to take advantage of this authority and

- set market ID
- set address
- · set the address as a proxy
- set pool implement
- · set pool configuration implement
- set price oracle address
- set Pyth oracle address
- set ACL manager
- set ACL admin
- · set price Oracle sentinel
- set pool data provider







Recommendation

The risk describes the current project design and potentially makes iterations to improve in the security operation and level of decentralization, which in most cases cannot be resolved entirely at the present stage. We advise the client to carefully manage the privileged account's private key to avoid any potential risks of being hacked. In general, we strongly recommend centralized privileges or roles in the protocol be improved via a decentralized mechanism or smart-contract-based accounts with enhanced security practices, e.g., multisignature wallets. Indicatively, here are some feasible suggestions that would also mitigate the potential risk at a different level in terms of short-term, long-term and permanent:

Short Term:

Timelock and Multi sign (2/3, 3/5) combination *mitigate* by delaying the sensitive operation and avoiding a single point of key management failure.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
 AND
- Assignment of privileged roles to multi-signature wallets to prevent a single point of failure due to the private key compromised;

AND

 A medium/blog link for sharing the timelock contract and multi-signers addresses information with the public audience.

Long Term:

Timelock and DAO, the combination, mitigate by applying decentralization and transparency.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
 AND
- Introduction of a DAO/governance/voting module to increase transparency and user involvement.
 AND
- A medium/blog link for sharing the timelock contract, multi-signers addresses, and DAO information with the public audience.

Permanent:

Renouncing the ownership or removing the function can be considered *fully resolved*.

- Renounce the ownership and never claim back the privileged roles.
 OR
- Remove the risky functionality.

Alleviation



[Colend Team, 04/22/2024]: The team acknowledged the issue and adopted the multisign solution to ensure the private key management process at the current stage. The PoolAddressProvider contract has transferred the ownership to a Gnosis Safe contract with 2/3 signers in the sensitive function signing process.

- Grant Role transaction hash for Gnosis Safe:
 https://scan.coredao.org/tx/0x9e738a493f615d48c459aa23d4f23e88f097a8da7beb92a8e8c2a326f6595808#overview
- The three multisign addresses:
 - 1. EOA:0x0B4F1B818144fca1f56191F1d50Dc4584503AD5f
 - 2. EOA:0xA9cB975efd9E4De4BFCb57018B0fA205A953cc2C
 - 3. EOA:0x07C41661eC79E3354134A0cB35Ae47C139B2670e

[CertiK, 04/22/2024]: While this strategy has indeed reduced the risk, it's crucial to note that it has not completely eliminated it. CertiK strongly encourages the project team to periodically revisit the private key security management of all the above-listed addresses.



RLC-01 PROTOCOL CAN BE ATTACKED DUE TO THE POTENTIAL ROUNDING ISSUE IF TOTAL SUPPLY OF A MARKET IS

Category	Severity	Location	Status
Logical Issue	Major	contracts/protocol/libraries/logic/ReserveLogic.sol: 118~130	Partially Resolved

Description

The value of the liquidityIndex is calculated proportionally to the result of protocol revenue divided by the total liquidity amount. When the total liquidity is extremely small (e.g., value equal to 1), this can cause the liquidityIndex to become an extremely large value. This situation can occur when a pool has 1 wei deposited token and generates a large amount of revenue from the income of a flash loan operation.

```
uint256 result = (amount.wadToRay().rayDiv(totalLiquidity.wadToRay()) +
WadRayMath.RAY).rayMul(
      reserve.liquidityIndex
```

The liquidityIndex variable is used in the collateral withdrawal process when calculating the share amount to burn. Due to the inflated liquidityIndex value, it enables the rounding error originating from the "WadRayMath" math library to be used in the burning of the share token and withdrawal calculations from the pool. When the "totalShare" of the pool is 2, and when the user is required to return a value larger than 1 (e.g., 1.5) share, the value will round down to 1, which allows the user to withdraw 1.5 shares worth of collateral and only burn 1 share. By repeating deposits to create a total share of 2 and withdrawing more than 1 share of collateral tokens, the attacker can withdraw more collateral than they are supposed to and drain the pool.

```
IAToken(reserveCache.aTokenAddress).burn(
      msg.sender,
      params.to,
      amountToWithdraw,
      reserveCache.nextLiquidityIndex
uint256 amountScaled = amount.rayDiv(index);
```

This specific attack vector is only possible when a token pool is empty or has an extremely small amount of liquidity.

Reference: https://medium.com/@RadiantCapital/post-mortem-report-radiant-capital-aea46cb985ae



Recommendation

When adding a new market to the protocol, the auditor recommends that, within the same transaction that enables the market, the project team sets the LTV (Loan to Value) value to zero, deposits a small initial amount of funds into the pool, and burns the share tokens. Afterward, the team can change the LTV back to a non-zero normal value. This procedure can help mitigate the attack vector against a newly deployed empty market.

Alleviation

[Colend Team, 04/16/2024]:

Supply Assets sent to 0x...dead

- https://scan.coredao.org/tx/0xa6b3091248b5202dbc0c8ffed346f0eb3ac48a855bcca384ab8549633effa0aa
- https://scan.coredao.org/tx/0xb1eb6db1f90dd7358061e3c2fce25c9a807606ddf55218cf8a924b71df5baf67
- https://scan.coredao.org/tx/0x3ab076baaa34f91195fc0fbd7c9ac50410d69bf706fb3c835311f9ce7b2e63ae
- https://scan.coredao.org/tx/0xc85b65867ca93f609196cae4dee8a6ab5a7856ef8c0c28b366a654fb60cdc407

The Client supplies the WCORE, COREBTC, USDT, and USDC assets to the protocol and burns the share tokens.

[CertiK Team, 04/16/2024]:

While the above pools are protected, please ensure that new pools also implement the same security measures in the future.



AOC-01 THIRD-PARTY DEPENDENCY USAGE

Category	Severity	Location	Status
Design Issue	Minor	contracts/misc/AaveOracle.sol: 109	Acknowledged

Description

The contract is serving as the underlying entity to interact with one or more third-party protocols. The scope of the audit treats third-party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised and this may lead to lost or stolen assets. In addition, upgrades of third parties can possibly create severe impacts, such as increasing fees of third parties, migrating to new LP pools, etc.

```
PythStructs.Price memory priceStruct = IPyth(ADDRESSES_PROVIDER.getPyth()
).getPrice(
110    priceFeedId
111 );
```

 The contract Aaveoracle interacts with the third-party contract with IPyth interface via ADDRESSES_PROVIDER.getPyth().

Recommendation

The auditors understood that the business logic requires interaction with third parties. It is recommended for the team to constantly monitor the statuses of third parties to mitigate the side effects when unexpected activities are observed.

Alleviation

[Colend Team, 04/12/2024]: Issue acknowledged. I won't make any changes for the current version. We currently have monitor solution in place to constantly compare the on-chain Pyth price vs off-chain aggregate price.



AOC-02 UNUSE CONFIDENCE INTERVALS

Category	Severity	Location	Status
Design Issue	Informational	contracts/misc/AaveOracle.sol: 113	Acknowledged

Description

The function getPrice() can get the latest price and confidence interval for the requested price feed ID.

At every point in time, Pyth publishes both a price and a confidence interval for each product.

In a Pyth feed, each publisher specifies an interval (p_i - c_i , p_i + c_i) in the form of their price and confidence submission. This interval is intended to achieve 95% coverage, i.e. the publisher expresses the belief that this interval contains the "true" price with 95% probability. The resulting aggregate interval (μ - σ , μ + σ), where μ represents the aggregate price and σ represents the aggregate confidence, is a good estimate of a range in which the true price lies.

- 1. It can use a discounted price in the direction favorable to it. For example, a lending protocol valuing a user's collateral can use the lower valuation price μ - σ . When valuing an outstanding loan position consisting of tokens a user has borrowed from the protocol, it can use the higher end of the interval by using the price μ + σ . This allows the protocol to be conservative with regard to its own health and safety when making valuations.
- 2. It can decide that there is too much uncertainty when σ/μ exceeds some threshold and choose to pause any new activity that depends on the price of this asset.

Refer: https://docs.pyth.network/price-feeds/best-practices

Recommendation

We would like to confirm with the client if the current implementation aligns with the original project design.

Alleviation

[Colend Team, 04/12/2024]: Issue acknowledged. I won't make any changes for the current version.

interesting point that we haven't looked into for now. We are going to analyze this and see if we won't utilize this.



ECP-01 UNUSED CONSTANT VARIABLE

Category	Severity	Location	Status
Coding Style	Informational	contracts/protocol/libraries/helpers/Errors.sol: 100	Acknowledged

Description

The constant variable UNREGISTERED_ASSET_FOR_PRICE_FEED is declared but never used in the project.

Recommendation

We recommend removing unused constant variable if it is not going to be used.

Alleviation

The client acknowledged this finding.



APPENDIX | COLEND - AUDIT

I Finding Categories

Categories	Description
Coding Style	Coding Style findings may not affect code behavior, but indicate areas where coding practices can be improved to make the code more understandable and maintainable.
Logical Issue	Logical Issue findings indicate general implementation issues related to the program logic.
Centralization	Centralization findings detail the design choices of designating privileged roles or other centralized controls over the code.
Design Issue	Design Issue findings indicate general issues at the design level beyond program logic that are not covered by other finding categories.

Checksum Calculation Method

The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under the specified commit.

The result is hexadecimal encoded and is the same as the output of the Linux "sha256sum" command against the target file.



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CertiK Securing the Web3 World

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