

SMART CONTRACT AUDIT REPORT

for

Coresky

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PeckShield May 2, 2025

Document Properties

Client	Coresky
Title	Smart Contract Audit Report
Target	Coresky
Version	1.0-rc
Author	Xuxian Jiang
Auditors	Matthew Jiang, Xuxian Jiang
Reviewed by	Xiaomi Huang
Approved by	Xuxian Jiang
Classification	Confidential

Version Info

Version	Date	Author(s)	Description
1.0-rc	May 2, 2025	Xuxian Jiang	Release Candidate #1

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1 Introduction

Given the opportunity to review the design document and related source code of the Coresky protocol, we outline in the report our systematic approach to evaluate potential security issues in the smart contract implementation, expose possible semantic inconsistencies between smart contract code and design document, and provide additional suggestions or recommendations for improvement. Our results show that the given version of smart contracts can be further improved due to the presence of several issues related to either security or performance. This document outlines our audit results.

1.1 About Coresky

Coresky aims to be the ultimate Meme incubation platform, offering one-click Meme token creation and community-driven voting to support high-quality projects. Backed by a \$50 million market cap pool, the platform provides liquidity and market incentives for top-ranked Meme tokens. It is built to provide a user-friendly environment for launching tokens, initializing liquidity pools, conducting secure token trades, and migrating token pairs to prominent decentralized exchanges such as UniswapV2. The basic information of audited contracts is as follows:

ltem	Description
Name	Coresky
Туре	EVM Smart Contract
Platform	Solidity
Audit Method	Whitebox
Latest Audit Report	May 2, 2025

Table 1.1: Basic Information of The Coresky

In the following, we show the Git repository of reviewed files and the commit hash value used in this audit. Note this audit covers only two files under the contracts/ directory, i.e., Meme/MemeSubjectShares .sol and Meme/TokenFactory.sol.

https://github.com/Coreskyofficial/core-contract.git (bfbd99c)

And here is the commit ID after fixes for the issues found in the audit have been checked in:

https://github.com/Coreskyofficial/core-contract.git (TBD)

1.2 About PeckShield

PeckShield Inc. [9] is a leading blockchain security company with the goal of elevating the security, privacy, and usability of current blockchain ecosystems by offering top-notch, industry-leading services and products (including the service of smart contract auditing). We are reachable at Telegram (https://t.me/peckshield), Twitter (http://twitter.com/peckshield), or Email (contact@peckshield.com).

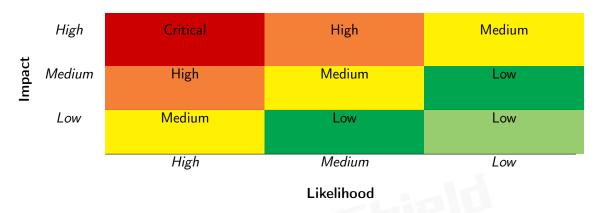


Table 1.2: Vulnerability Severity Classification

1.3 Methodology

To standardize the evaluation, we define the following terminology based on OWASP Risk Rating Methodology [8]:

- <u>Likelihood</u> represents how likely a particular vulnerability is to be uncovered and exploited in the wild:
- Impact measures the technical loss and business damage of a successful attack;
- Severity demonstrates the overall criticality of the risk.

Likelihood and impact are categorized into three ratings: *H*, *M* and *L*, i.e., *high*, *medium* and *low* respectively. Severity is determined by likelihood and impact and can be classified into four categories accordingly, i.e., *Critical*, *High*, *Medium*, *Low* shown in Table 1.2.

To evaluate the risk, we go through a list of check items and each would be labeled with a severity category. For one check item, if our tool or analysis does not identify any issue, the

Table 1.3: The Full List of Check Items

Category	Check Item
	Constructor Mismatch
	Ownership Takeover
	Redundant Fallback Function
	Overflows & Underflows
	Reentrancy
	Money-Giving Bug
	Blackhole
	Unauthorized Self-Destruct
Basic Coding Bugs	Revert DoS
Dasic Couling Dugs	Unchecked External Call
	Gasless Send
	Send Instead Of Transfer
	Costly Loop
	(Unsafe) Use Of Untrusted Libraries
	(Unsafe) Use Of Predictable Variables
	Transaction Ordering Dependence
	Deprecated Uses
Semantic Consistency Checks	Semantic Consistency Checks
	Business Logics Review
	Functionality Checks
	Authentication Management
	Access Control & Authorization
	Oracle Security
Advanced DeFi Scrutiny	Digital Asset Escrow
ravancea Ber i Geraemi,	Kill-Switch Mechanism
	Operation Trails & Event Generation
	ERC20 Idiosyncrasies Handling
	Frontend-Contract Integration
	Deployment Consistency
	Holistic Risk Management
	Avoiding Use of Variadic Byte Array
	Using Fixed Compiler Version
Additional Recommendations	Making Visibility Level Explicit
	Making Type Inference Explicit
	Adhering To Function Declaration Strictly
	Following Other Best Practices

contract is considered safe regarding the check item. For any discovered issue, we might further deploy contracts on our private testnet and run tests to confirm the findings. If necessary, we would additionally build a PoC to demonstrate the possibility of exploitation. The concrete list of check items is shown in Table 1.3.

In particular, we perform the audit according to the following procedure:

- Basic Coding Bugs: We first statically analyze given smart contracts with our proprietary static code analyzer for known coding bugs, and then manually verify (reject or confirm) all the issues found by our tool.
- <u>Semantic Consistency Checks</u>: We then manually check the logic of implemented smart contracts and compare with the description in the white paper.
- Advanced DeFi Scrutiny: We further review business logics, examine system operations, and place DeFi-related aspects under scrutiny to uncover possible pitfalls and/or bugs.
- Additional Recommendations: We also provide additional suggestions regarding the coding and development of smart contracts from the perspective of proven programming practices.

To better describe each issue we identified, we categorize the findings with Common Weakness Enumeration (CWE-699) [7], which is a community-developed list of software weakness types to better delineate and organize weaknesses around concepts frequently encountered in software development. Though some categories used in CWE-699 may not be relevant in smart contracts, we use the CWE categories in Table 1.4 to classify our findings.

1.4 Disclaimer

Note that this security audit is not designed to replace functional tests required before any software release, and does not give any warranties on finding all possible security issues of the given smart contract(s) or blockchain software, i.e., the evaluation result does not guarantee the nonexistence of any further findings of security issues. As one audit-based assessment cannot be considered comprehensive, we always recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contract(s). Last but not least, this security audit should not be used as investment advice.

Table 1.4: Common Weakness Enumeration (CWE) Classifications Used in This Audit

Category	Summary
Configuration	Weaknesses in this category are typically introduced during
	the configuration of the software.
Data Processing Issues	Weaknesses in this category are typically found in functional-
	ity that processes data.
Numeric Errors	Weaknesses in this category are related to improper calcula-
	tion or conversion of numbers.
Security Features	Weaknesses in this category are concerned with topics like
	authentication, access control, confidentiality, cryptography,
	and privilege management. (Software security is not security
	software.)
Time and State	Weaknesses in this category are related to the improper man-
	agement of time and state in an environment that supports
	simultaneous or near-simultaneous computation by multiple
	systems, processes, or threads.
Error Conditions,	Weaknesses in this category include weaknesses that occur if
Return Values,	a function does not generate the correct return/status code,
Status Codes	or if the application does not handle all possible return/status
	codes that could be generated by a function.
Resource Management	Weaknesses in this category are related to improper manage-
	ment of system resources.
Behavioral Issues	Weaknesses in this category are related to unexpected behav-
	iors from code that an application uses.
Business Logics	Weaknesses in this category identify some of the underlying
	problems that commonly allow attackers to manipulate the
	business logic of an application. Errors in business logic can
	be devastating to an entire application.
Initialization and Cleanup	Weaknesses in this category occur in behaviors that are used
	for initialization and breakdown.
Arguments and Parameters	Weaknesses in this category are related to improper use of
	arguments or parameters within function calls.
Expression Issues	Weaknesses in this category are related to incorrectly written
	expressions within code.
Coding Practices	Weaknesses in this category are related to coding practices
	that are deemed unsafe and increase the chances that an ex-
	ploitable vulnerability will be present in the application. They
	may not directly introduce a vulnerability, but indicate the
	product has not been carefully developed or maintained.

2 Findings

2.1 Summary

Here is a summary of our findings after analyzing the implementation of the Coresky protocol. During the first phase of our audit, we study the smart contract source code and run our in-house static code analyzer through the codebase. The purpose here is to statically identify known coding bugs, and then manually verify (reject or confirm) issues reported by our tool. We further manually review business logics, examine system operations, and place DeFi-related aspects under scrutiny to uncover possible pitfalls and/or bugs.

Severity	# of Findings
Critical	0
High	1
Medium	3
Low	2
Informational	0
Total	6

We have so far identified a list of potential issues. For each uncovered issue, we have therefore developed test cases for reasoning, reproduction, and/or verification. After further analysis and internal discussion, we determined a few issues of varying severities that need to be brought up and paid more attention to, which are categorized in the above table. More information can be found in the next subsection, and the detailed discussions of each of them are in Section 3.

2.2 Key Findings

Overall, these smart contracts are well-designed and engineered, though the implementation can be improved by resolving the identified issues (shown in Table 2.1), including 1 high-severity vulnerability, 3 medium-severity vulnerabilities, and 2 low-severity vulnerabilities.

ID Severity Title **Status** Category PVE-001 Medium Incorrect Token Fund/Collateral **Business Logic** Amount Update in TokenFactory **PVE-002** Medium Improper Fee Percent Update/Use in **Business Logic TokenFactory** PVE-003 Possibly Inaccurate Payment Token in Coding Practices Low Buy/Sell Events PVE-004 High Possible Denial-of-Service in Enabling **Business Logic** Token Trading PVE-005 Incorrect setBondingCurve() Logic in Coding Practices Low **TokenFactory PVE-006** Medium Trust Issue of Admin Keys Security Features

Table 2.1: Key Coresky Audit Findings

Besides recommending specific countermeasures to mitigate these issues, we also emphasize that it is always important to develop necessary risk-control mechanisms and make contingency plans, which may need to be exercised before the mainnet deployment. The risk-control mechanisms need to kick in at the very moment when the contracts are being deployed in mainnet. Please refer to Section 3 for details.

3 Detailed Results

3.1 Incorrect Token Fund/Collateral Amount Update in TokenFactory

• ID: PVE-001

Severity: MediumLikelihood: Medium

• Impact: Medium

• Target: TokenFactory

Category: Business Logic [6]CWE subcategory: CWE-841 [3]

Description

The Coresky protocol has a core TokenFactory contract to orchestrate the token launch, buy, and sell operations. While examining the token-selling logic, we notice an issue that does not properly update the raised token fund amount.

To elaborate, we show below the related sell() routine. It has a rather straightforward logic in validating the given input and then selling the intended token amount. However, it comes to our attention that the raised fund amount should be updated as tokenInfo.funds -= receivedToken + fee;, not current tokenInfo.funds -= receivedToken; (line 555). The reason is that the fee amount should also be deducted. In addition, the respective token collateral amount should also be updated, i.e., collateral[tokenAddress] = tokenInfo.funds;.

```
531
        function sell(uint256 serialNo, address tokenAddress, uint256 amount) external
            nonReentrant {
532
            TokenInfo storage tokenInfo = _tokenInfos[tokenAddress];
533
            require(_templates.length > 0, "Template is empty");
534
             Template memory t = _templates[tokenInfo.template];
535
             // Verify used
536
             if (bitmap.get(serialNo)) revert AlreadyUsed(serialNo);
537
             // Mark it used
538
             bitmap.set(serialNo);
539
             require(
540
                 tokens[tokenAddress] == TokenState.FUNDING,
541
                 "Funding has not start"
```

```
542
543
             require(amount > 0, "Amount should be greater than zero");
544
             Token token = Token(tokenAddress);
545
             uint256 receivedToken = BondingCurve(t.bondingCurve).getFundsReceived(
546
                token.totalSupply(),
547
548
            );
             // calculate fee
549
             uint256 _fee = calculateFee(receivedToken, (feeRecipient == address(0) ? 0 :
550
                 feePercent)):
551
            receivedToken -= _fee;
552
             tradingTotalFeeByToken[tokenAddress] += _fee;
553
             tradingTotalFeeByQuote[tokenInfo.quote] += _fee;
554
             token.burn(msg.sender, amount);
555
             tokenInfo.funds -= receivedToken;
556
557
             if(feeRecipient != address(0) && _fee > 0){
558
                 Transfer(feeRecipient, tokenInfo.quote, _fee);
559
560
             Transfer(msg.sender, tokenInfo.quote, receivedToken);
561
             emit Sell(tokenAddress, msg.sender, serialNo, paymentToken, amount,
                 receivedToken, block.timestamp);
562
```

Listing 3.1: TokenFactory::sell()

Recommendation Improve the above routine by properly updating the raised token fund amount as well as the collateral amount.

Status

3.2 Improper Fee Percent Update/Use in TokenFactory

• ID: PVE-002

Severity: Low

• Likelihood: Low

• Impact: High

• Target: TokenFactory

• Category: Business Logic [6]

• CWE subcategory: CWE-841 [3]

Description

As mentioned earlier, Coresky has a core TokenFactory contract to orchestrate the token launch, buy, and sell operations. While examining the token-buying logic, we notice an issue that does not use the intended trading fee.

In the following, we show the code snippet from the affected buy() routine. Note that each token sale is guided with the associated template configuration. And within the template configuration,

there is a parameter named minTradingFee, which is used as the trading fee. With that, if the feeRecipient parameter is not configured (line 473), we should use a local fee percent variable _feePercent, instead of blindly updating the global feePercent to zero. In other words, we shall use the following statement, i.e., int _feePercent = (feeRecipient == address(0)? 0 : t.minTradingFee));. And the use of feePercent (lines 477 and 483) should be replaced with _feePercent. Note the sell() routine shares the same issue.

```
473
             if(feeRecipient == address(0)){
474
                 feePercent = 0;
475
            }
476
            //
477
             uint256 contributionWithoutFee = (valueToBuy * FEE_DENOMINATOR) / (
                FEE_DENOMINATOR + feePercent);
478
479
            if (contributionWithoutFee > remainingEthNeeded) {
480
                 contributionWithoutFee = remainingEthNeeded;
481
482
            // calculate fee
483
            uint256 _fee = calculateFee(contributionWithoutFee, feePercent);
484
            uint256 totalCharged = contributionWithoutFee + _fee;
485
             uint256 valueToReturn = valueToBuy > totalCharged
486
                 ? valueToBuy - totalCharged
487
488
489
             tradingTotalFeeByToken[tokenAddress] += _fee;
490
             tradingTotalFeeByQuote[tokenInfo.quote] += _fee;
```

Listing 3.2: TokenFactory::buy()

Recommendation Revise the above-mentioned routines to use the right trading fee.

Status

3.3 Possibly Inaccurate Payment Token in Buy/Sell Events

• ID: PVE-003

Severity: Low

Likelihood: Low

• Impact: Low

• Target: TokenFactory

• Category: Coding Practices [5]

• CWE subcategory: CWE-1126 [1]

Description

In Ethereum, the event is an indispensable part of a contract and is mainly used to record a variety of runtime dynamics. In particular, when an event is emitted, it stores the arguments passed in

transaction logs and these logs are made accessible to external analytics and reporting tools. Events can be emitted in a number of scenarios. One particular case is when system-wide parameters or settings are being changed. Another case is when tokens are being minted, transferred, or burned.

In the following, we use the TokenFactory contract as an example. This contract has public functions that are used to buy and sell tokens. While examining the actual Buy/Sell events, we notice the emitted payment token should be t.quote, not current paymentToken (lines 528 and 561).

```
531
        function sell(uint256 serialNo, address tokenAddress, uint256 amount) external
            nonReentrant {
532
             TokenInfo storage tokenInfo = _tokenInfos[tokenAddress];
533
             require(_templates.length > 0, "Template is empty");
534
            Template memory t = _templates[tokenInfo.template];
535
            // Verify used
536
            if (bitmap.get(serialNo)) revert AlreadyUsed(serialNo);
537
            // Mark it used
538
            bitmap.set(serialNo);
539
             require(
540
                 tokens[tokenAddress] == TokenState.FUNDING,
541
                 "Funding has not start"
542
            );
543
            require(amount > 0, "Amount should be greater than zero");
544
            Token token = Token(tokenAddress);
545
             uint256 receivedToken = BondingCurve(t.bondingCurve).getFundsReceived(
546
                 token.totalSupply(),
547
                 amount
548
            );
549
             // calculate fee
550
             uint256 _fee = calculateFee(receivedToken, (feeRecipient == address(0) ? 0 :
                 feePercent));
551
             receivedToken -= _fee;
552
             tradingTotalFeeByToken[tokenAddress] += _fee;
553
             tradingTotalFeeByQuote[tokenInfo.quote] += _fee;
554
             token.burn(msg.sender, amount);
555
             tokenInfo.funds -= receivedToken;
556
557
             if(feeRecipient != address(0) && _fee > 0){
558
                 Transfer(feeRecipient, tokenInfo.quote, _fee);
559
560
             Transfer(msg.sender, tokenInfo.quote, receivedToken);
561
             emit Sell(tokenAddress, msg.sender, serialNo, paymentToken, amount,
                 receivedToken, block.timestamp);
562
```

Listing 3.3: TokenFactory::sell()

Recommendation Properly emit the respective events Buy/Sell with the correct payment token information.

Status

3.4 Possible Denial-of-Service in Enabling Token Trading

• ID: PVE-004

• Severity: High

• Likelihood: Medium

• Impact: High

• Target: TokenFactory

• Category: Business Logic [6]

• CWE subcategory: CWE-841 [3]

Description

As mentioned earlier, Coresky builds an innovative DeFi platform that caters to the launch, liquidity management, and automated market operations of new tokens. When a new token is launched, it will go through the so-called graduation process. Our analysis shows the token graduation may suffer from a denial-of-service issue.

In the following, we show the code snippet of the related <code>buy()</code> routine. When the new token launch process reaches the target <code>maxRaising</code>, the shown code snippet will be executed. As part of its logic, it will call the <code>uniswapV2Factory</code> contract to create the token pair and add the initial liquidity. However, the token pair creation may be blocked (line 504) if the external pair is already created, resulting in the token graduation failure.

```
501
             // when reached FUNDING_GOAL
502
             if (tokenCollateral >= tokenInfo.maxRaising) {
503
                 token.mint(address(this), t.initialLiquidity);
504
                 address pair = createLiquilityPool(tokenAddress, tokenInfo.quote);
505
                 uint256 liquidity = addLiquidity(
506
                     tokenAddress,
507
                     tokenInfo.quote,
508
                     t.initialLiquidity,
509
                     tokenCollateral
510
                 );
511
                 burnLiquidityToken(pair, liquidity);
512
                 tokenCollateral = 0;
513
                 tokens[tokenAddress] = TokenState.TRADING;
514
                 tokenInfo.status = uint256(TokenState.TRADING);
515
                 emit TokenLiqudityAdded(tokenAddress, block.timestamp);
516
517
             collateral[tokenAddress] = tokenCollateral;
             tokenInfo.funds = tokenCollateral;
518
```

Listing 3.4: TokenFactory::buy()

```
function createLiquilityPool(
for address tokenAddress,

address quote

internal returns (address) {

IUniswapV2Factory factory = IUniswapV2Factory(uniswapV2Factory);

for address quote

IUniswapV2Factory factory = IUniswapV2Factory(uniswapV2Factory);

for address quote

internal returns (address) {

IUniswapV2Factory factory = IUniswapV2Factory(uniswapV2Factory);

for address tokenAddress,

address quote

internal returns (address) {

IUniswapV2Factory factory = IUniswapV2Factory(uniswapV2Factory);

for address tokenAddress,

for address quote

for add
```

Listing 3.5: TokenFactory::createLiquilityPool()

Recommendation Revise the above routine to ensure the token graduation is not blocked.

Status

3.5 Incorrect setBondingCurve() Logic in TokenFactory

• ID: PVE-005

• Severity: Low

• Likelihood: Low

• Impact: Low

• Target: TokenFactory

• Category: Coding Practices [5]

• CWE subcategory: CWE-1126 [1]

Description

DeFi protocols typically have a number of system-wide parameters that can be dynamically configured on demand. The Coresky protocol is no exception. Specifically, if we examine the TokenFactory contract, it has defined a number of protocol-wide risk parameters, such as bondingCurve and paymentToken. In the following, we show the corresponding routines that allow for their changes.

```
246
         function setPaymentToken(
247
             address _paymentToken
248
         ) external onlyRole(OPERATOR_ROLE) {
249
             paymentToken = _paymentToken;
250
             _templates[_defaultTemplate].quote = _paymentToken;
251
252
253
        function setBondingCurve(
254
             address _bondingCurve
255
        ) external onlyRole(OPERATOR_ROLE) {
256
             bondingCurve = BondingCurve(_bondingCurve);
257
```

Listing 3.6: TokenFactory::setBondingCurve()

These parameters define various aspects of the protocol operation and maintenance and need to exercise extra care when configuring or updating them. Our analysis shows the update logic on

these parameters can be improved by applying more rigorous sanity checks. Based on the current implementation, certain corner cases may lead to an undesirable consequence. For example, the above setBondingCurve() setter can be improved by also updating the default template, i.e., _templates[__defaultTemplate].bondingCurve = __bondingCurve;.

Recommendation Validate any changes regarding these system-wide parameters to ensure they are properly applied.

Status

3.6 Trust Issue of Admin Keys

• ID: PVE-006

• Severity: Medium

Likelihood: Low

• Impact: High

• Target: Multiple Contracts

• Category: Security Features [4]

• CWE subcategory: CWE-287 [2]

Description

In Coresky, there is a privileged administrative account (with the DEFAULT_ADMIN_ROLE role). The administrative account plays a critical role in governing and regulating the protocol-wide operations. Our analysis shows that this privileged account needs to be scrutinized. In the following, we use the TokenFactory contract as an example and show the representative functions potentially affected by the privileges of the administrative account.

```
180
        function updateSwapAddress(
181
             address _swapV2Router,
182
             address _swapV2Factory
183
        ) external onlyRole(DEFAULT_ADMIN_ROLE) {
184
             uniswapV2Router = _swapV2Router;
185
             uniswapV2Factory = _swapV2Factory;
186
187
188
        function setTokenImpl(
189
             address _tokenImplementation
190
        ) external onlyRole(DEFAULT_ADMIN_ROLE) {
191
             tokenImplementation = _tokenImplementation;
192
193
194
        function setFundingGoal(
195
             uint256 _fundingGoal
196
        ) external onlyRole(DEFAULT_ADMIN_ROLE) {
197
             FUNDING_GOAL = _fundingGoal;
198
             _templates[_defaultTemplate].maxRaising = _fundingGoal;
199
```

```
200
201
         function setFeeRecipient(
202
             address _feeRecipient
203
         ) external onlyRole(DEFAULT_ADMIN_ROLE) {
204
             feeRecipient = _feeRecipient;
205
206
207
        function setFeePercent(
208
             uint256 _feePercent
209
         ) external onlyRole(DEFAULT_ADMIN_ROLE) {
210
             feePercent = _feePercent;
211
             _templates[_defaultTemplate].minTradingFee = _feePercent;
212
```

Listing 3.7: Example Privileged Operations in TokenFactory

We understand the need of the privileged functions for contract maintenance, but at the same time the extra power to the administrative account may also be a counter-party risk to the protocol users. It would be worrisome if the privileged administrative account is a plain EOA account. Note that a multi-sig account could greatly alleviate this concern, though it is still far from perfect. Specifically, a better approach is to eliminate the administration key concern by transferring the role to a community-governed DAO.

Moreover, it should be noted that current contract has the support of being deployed behind a proxy. And there is a need to properly manage the proxy-admin privileges as they fall in this trust issue as well.

Recommendation Promptly transfer the privileged account to the intended DAO-like governance contract. All changes to privileged operations may need to be mediated with necessary timelocks. Eventually, activate the normal on-chain community-based governance life-cycle and ensure the intended trustless nature and high-quality distributed governance.

Status

4 Conclusion

In this audit, we have analyzed the design and implementation of the Coresky protocol, which aims to be the ultimate Meme incubation platform, offering one-click Meme token creation and community-driven voting to support high-quality projects. Backed by a \$50 million market cap pool, the platform provides liquidity and market incentives for top-ranked Meme tokens. It is built to provide a user-friendly environment for launching tokens, initializing liquidity pools, conducting secure token trades, and migrating token pairs to prominent decentralized exchanges such as UniswapV2. The current code base is well structured and neatly organized. Those identified issues are promptly confirmed and addressed.

Meanwhile, we need to emphasize that Solidity-based smart contracts as a whole are still in an early, but exciting stage of development. To improve this report, we greatly appreciate any constructive feedbacks or suggestions, on our methodology, audit findings, or potential gaps in scope/coverage.

References

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