

**Blockchain Security | Smart Contract Audits | KYC** 

MADE IN GERMANY

# Wen

# Audit

Security Assessment 18. April, 2022



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| Version | Date           | Description   |
|---------|----------------|---|
| 1.0     | 18. March 2022 | <ul><li>Layout project</li><li>Automated-/Manual-Security Testing</li><li>Summary</li></ul> |
| 1.1     | 18. April 2022 | Mainnet has been added  |

### Network

Binance Smart Chain (BEP20)

### Website

https://wen.services

### **Telegram**

https://t.me/wenservicesog

### **Twitter**

https://twitter.com/WenServicesOG

# **Description**

**WenToken** is the main driving force of our project and we intend to add more and more utility to the token over time.

**WenToken** is fully supported by our suite of products and, in fact, a fixed percentage of the revenues will go directly into the Buyback - Burn feature to enable consistent uptrends.

Our **WenVision** includes numerous blockchain developments and is driven toward becoming the premiere marketing and project development crypto currency.

The total amount of tokens, to be distributed among our early investors and exchange liquidity, will be 1 billion in total.

In addition, **WenToken** will have an adjustable 5% Purchase Fee, 7% Sell/ Transfer Fee, and a 10% Whale Management Fee with an adjustable token amount deterring whales from transferring or selling within 24 hours.

# **Project Engagement**

During the 15th of March 2022, **Wen Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.



### **Contract Link**

### v1.0

https://bscscan.com/address/
 0xf9190d76535f4a3a7c8aea849d2dc56e69e29a8e

#### **V1.1**

https://bscscan.com/address/
 0x7d6a475db457187cf8c330cf06202fb30d50a0d4#code

# **Vulnerability & Risk Level**

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

| Level         | Value   | Vulnerability   | Risk (Required Action)  |
|---------------|---------|---|---|
| Critical      | 9 - 10  | A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.      | Immediate action to reduce risk level.                              |
| High          | 7 – 8.9 | A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way. | Implementation of corrective actions as soon aspossible.            |
| Medium        | 4 – 6.9 | A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.                                     | Implementation of corrective actions in a certain period.           |
| Low           | 2 – 3.9 | A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.       | Implementation of certain corrective actions or accepting the risk. |
| Informational | 0 – 1.9 | A vulnerability that have informational character but is not effecting any of the code.   | An observation that<br>does not determine a<br>level of risk        |

# Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

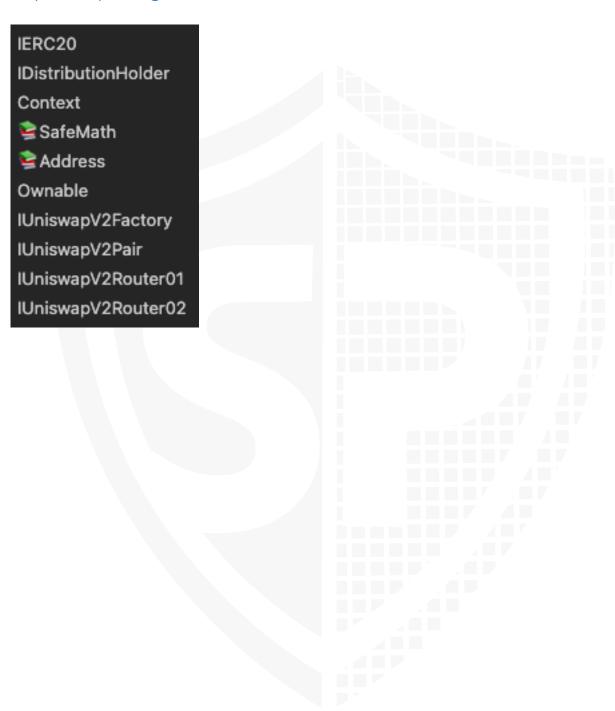
# Methodology

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
  - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
  - ii) Manual review of code, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
  - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
- 2. Testing and automated analysis that includes the following:
  - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
  - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
- 3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
- 4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

# **Used Code from other Frameworks/Smart Contracts (direct imports)**

### Imported packages:



### **Tested Contract Files**

This audit covered the following files listed below with a SHA-1 Hash.

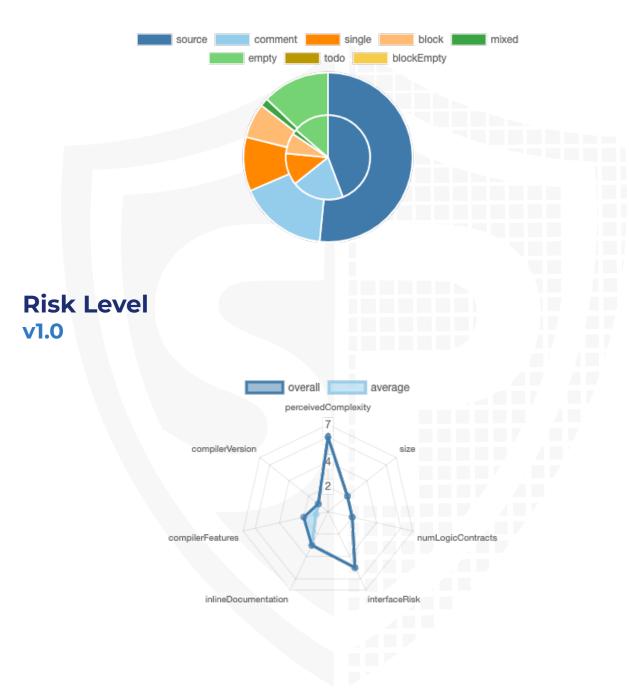
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

### **v1.0**

| File Name                  | SHA-1 Hash                               |
|----------------------------|--|
| contracts/wenmarketing.sol | f6f5ea86b7827dedfeb23af98e5ccacbc4030646 |

# **Metrics**

# Source Lines v1.0



# **Capabilities**

### Components

| Version | Contracts | Libraries | Interfaces | Abstract |
|---------|-----------|-----------|------------|----------|
| 1.0     | 1         | 2         | 6          | 2        |

### **Exposed Functions**

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

| Ve  | rsion | Public | Payable |
|-----|-------|--------|---------|
| 1.0 |       | 111    | 5       |

| Version | External | Internal | Private | Pure | View |
|---------|----------|----------|---------|------|------|
| 1.0     | 101      | 97       | 20      | 20   | 51   |

### **State Variables**

| Version | Total | Public |
|---------|-------|--------|
| 1.0     | 38    | 15     |

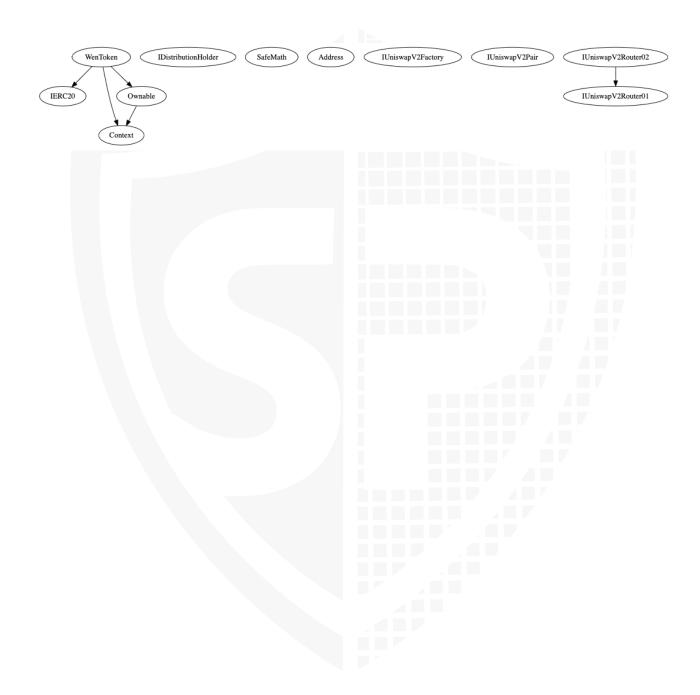
# **Capabilities**

| Version | Solidity<br>Versions<br>observed | Experim<br>ental<br>Features | Can<br>Receive<br>Funds | Uses<br>Assembl<br>Y     | Has<br>Destroya<br>ble<br>Contract<br>s |
|---------|----------------------------------|------------------------------|-------------------------|--------------------------|---|
| 1.0     | ^0.8.1<br>3                      |                              | yes                     | yes<br>(2 asm<br>blocks) |   |

| Version | Transfer<br>s ETH | Low-<br>Level<br>Calls | Deleg<br>ateCa<br>II | Uses<br>Hash<br>Function<br>s | EC<br>Rec<br>ove<br>r | New/<br>Create/<br>Create2 |  |
|---------|-------------------|------------------------|----------------------|-------------------------------|-----------------------|----------------------------|--|
|---------|-------------------|------------------------|----------------------|-------------------------------|-----------------------|----------------------------|--|

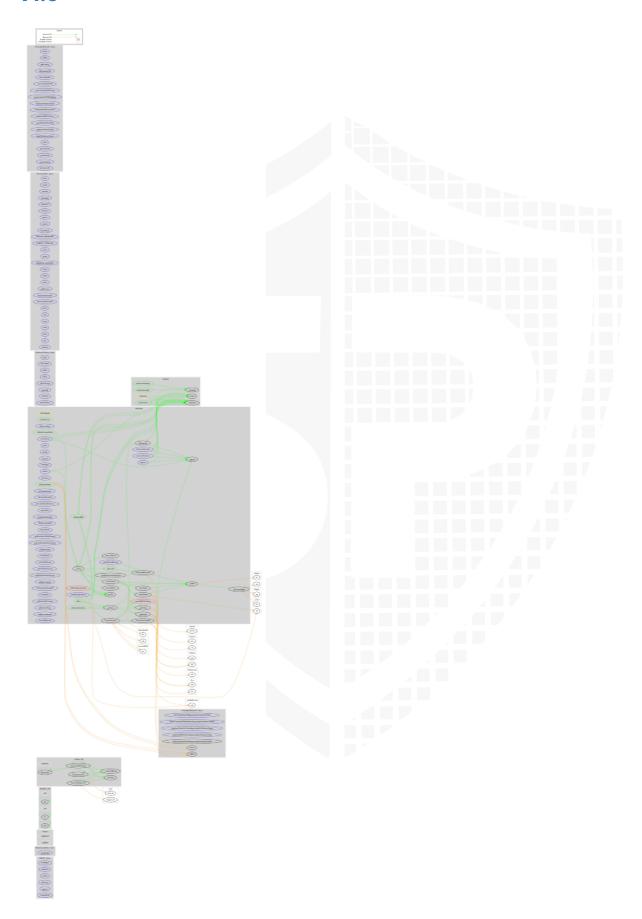
|  | 1.0 | yes |  | yes |  |  |  |
|--|-----|-----|--|-----|--|--|--|
|--|-----|-----|--|-----|--|--|--|

# Inheritance Graph v1.0



# CallGraph

### **v1.0**



# **Scope of Work/Verify Claims**

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

- 1. Correct implementation of Token standard
- 2. Deployer cannot mint any new tokens
- 3. Deployer cannot burn or lock user funds
- 4. Deployer cannot pause the contract
- 5. Overall checkup (Smart Contract Security)

### Correct implementation of Token standard

|              | ERC20   |              |          |              |
|--------------|---|--------------|----------|--------------|
| Function     | Description   | Exist        | Tested   | Verified     |
| TotalSupply  | Provides information about the total token supply                                 | <b>√</b>     | <b>√</b> | $\checkmark$ |
| BalanceOf    | Provides account balance of the owner's account                                   | $\checkmark$ | <b>√</b> | $\checkmark$ |
| Transfer     | Executes transfers of a specified number of tokens to a specified address         | <b>√</b>     | <b>√</b> | <b>√</b>     |
| TransferFrom | Executes transfers of a specified number of tokens from a specified address       | <b>√</b>     | <b>√</b> | <b>√</b>     |
| Approve      | Allow a spender to withdraw a set<br>number of tokens from a specified<br>account | <b>√</b>     | <b>√</b> | <b>√</b>     |
| Allowance    | Returns a set number of tokens from a spender to the owner                        | <b>√</b>     | <b>√</b> | <b>√</b>     |

# Write functions of contract v1.0

26. withdrawForeignToken

| 1. approve                     |
|--------------------------------|
| т. арргото                     |
| 2. decreaseAllowance           |
| 3. excludeFromFee              |
|                                |
| 4. excludeFromReward           |
| 5. includeInFee                |
| 6 Included December            |
| 6. includeInReward             |
| 7. increaseAllowance           |
| 8. reflect                     |
| o. renect                      |
| 9. renounceOwnership           |
| 10. setDistributionContract    |
| 10. Solo Stribution Contract   |
| 11. setLiquidity               |
| 12. setMarketingAddress        |
| 12. Sourial rotting-radioss    |
| 13. setMaxTxAmount             |
| 14. setReflectionEnabled       |
|                                |
| 15. setRouterAddress           |
| 16. setSellTaxFeePerecent      |
| To. Solder land der erecent    |
| 17. setTaxFeePercent           |
| 18. setTokenSwapThreshold      |
| To. Settokenowap Tillesiloid   |
| 19. setWhaleSellTaxFeePerecent |
| 20. setWhaleSellThreshold      |
| E. S. THEOGRAPH OF THE STORY   |
| 1. setWhaleSellTimer           |
| 22. transfer                   |
| <u>دد. بر مان بر ا</u>         |
| 23. transferFrom               |
| 24 transfer()wnershin          |
| 24. transferOwnership          |
| 25. withdrawBNB                |

## **Deployer cannot mint any new tokens**

| Name                 | Exist | Tested  | Status  |
|----------------------|-------|---------|---------|
| Deployer cannot mint | -     | _       | -       |
| Max / Total Supply   |       | 1.000.0 | 000.000 |



### Deployer cannot burn or lock user funds

| Name                 | Exist        | Tested   | Status |
|----------------------|--------------|----------|--------|
| Deployer cannot lock | $\checkmark$ | <b>√</b> | X      |
| Deployer cannot burn | -            | _        | _      |

#### Comments:

### **v1.0**

- Deployer can lock user funds by
  - Setting maxTxAmount to 0
  - · Setting fees too high

### **Deployer cannot pause the contract**

| Name                  | Exist | Tested | Status |
|-----------------------|-------|--------|--------|
| Deployer cannot pause | -     | _      | -      |



## **Overall checkup (Smart Contract Security)**

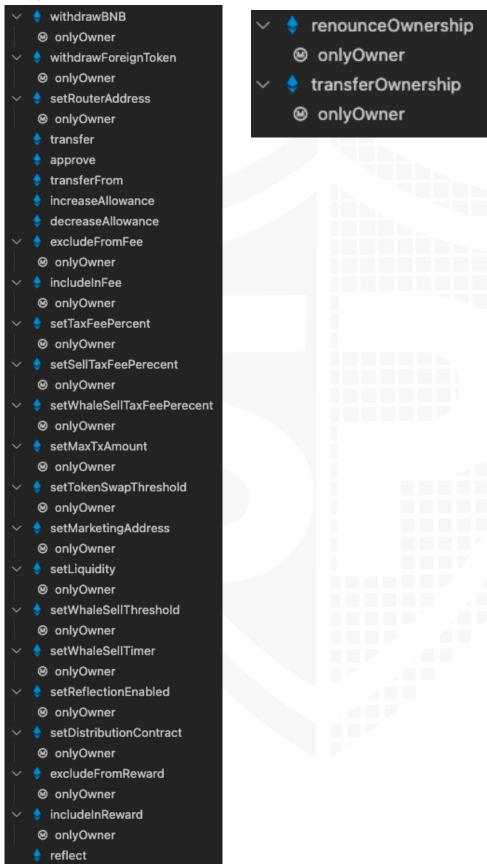


### Legend

| Attribute                | Symbol       |
|--------------------------|--------------|
| Verfified / Checked      | $\checkmark$ |
| Partly Verified          | P            |
| Unverified / Not checked | X            |
| Not available            | -            |

## **Modifiers and public functions**

#### **v1.0**



#### **Comments**

- Deployer can set following state variables without any limitations
  - \_taxFee
  - \_sellAndTransferTaxFee
  - \_whaleSellAndTransferTaxFee
  - \_maxTxAmount
  - \_tokenSwapThreshold
  - \_whaleSellThreshold
  - whaleSellTimer
- Deployer can enable/disable following state variables
  - \_isExcludedFromFees
  - \_enableLiquidity
  - \_reflectionEnabled
  - \_isExcluded
  - \_excluded
- Deployer can set following addresses
  - \_pancakeswapV2LiquidityPair
  - \_pancakeswapV2Router
  - \_marketingAddress
  - newDistributionWallet

Please check if an OnlyOwner or similar restrictive modifier has been forgotten.

# **Source Units in Scope**

### v1.0

| Туре        | File                       | Logic<br>Contracts | Interfaces | Lines | nLines | nSLOC | Comment<br>Lines | Complex.<br>Score | Capabilities                        |
|-------------|----------------------------|--------------------|------------|-------|--------|-------|------------------|-------------------|-------------------------------------|
| <b>≥</b> €Q | contracts/wenmarketing.sol | 5                  | 6          | 1214  | 949    | 552   | 258              | 616               | <b>■ Š ÷••</b>                      |
| <b>≥</b> €Q | Totals                     | 5                  | 6          | 1214  | 949    | 552   | 258              | 616               | <u>™</u> <u>Š</u> <u><b>÷••</b></u> |

### Legend

| Attribute        | Description   |
|------------------|---|
| Lines            | total lines of the source unit  |
| nLines           | normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)   |
| nSLOC            | normalized source lines of code (only source-code lines; no comments, no blank lines)   |
| Comment Lines    | lines containing single or block comments   |
| Complexity Score | a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces,) |

# **Audit Results**

# **AUDIT PASSED**

# **Critical issues**

### No critical issues

# **High issues**

## No high issues

### **Medium issues**

### No medium issues

## Low issues

| Issue | File | Туре  | Line     | Description  |
|-------|------|---|----------|--|
| #1    | Main | Contract doesn't import npm packages from source (like OpenZeppelin etc.) |          | We recommend to import all packages from npm directly without flatten the contract. Functions could be modified or can be susceptible to vulnerabilities |
| #2    | Main | A floating pragma is set  | 70       | The current pragma Solidity directive is ""^0.8.13"".  |
| #3    | Main | Missing Zero Address<br>Validation (missing-<br>zero-check)               | 824, 804 | Check that the address is not zero   |
| #4    | Main | State variable visibility is not set                                      | 550      | It is best practice to set the visibility of state variables explicitly  |
| #5    | Main | Local variables<br>shadowing  | 732, 707 | Rename the local variables that shadow another component   |

| #6 | Main | Missing Events<br>Arithmetic                         | 797, 789,<br>785, 801,<br>793, 813, 817     | Emit an event for critical parameter changes   |
|----|------|--|---|--|
| #7 | Main | Tokenomics   | See<br>modifiers<br>and public<br>functions | Restrict your state variables to match the tokenomics. State variables could set without any limitations.  |
| #8 | Main | Uniswap addresses                                    |   | Be aware that pancakeswapV2Router and pancakeswapV2LiquidityPair is not address zero otherwise it will affect to your contract flow influence.   |
|    |      |  |   | Every function where is above variables included will throw an exception.  We recommend to check if  |
|    |      |  |   | addresses are zero and continue the function if its not.   |
|    | Main | Distribution token<br>contract address zero<br>check |   | Be aware of accidentally setting distributionWallet to zero address because you are not able to use transfer function anymore because _checkDistributionTransactio n is accessing the returnHolder function. |

# Informational issues

| Issue | File | Туре   | Line                               | Description   |
|-------|------|--|------------------------------------|---|
| #1    | Main | State variables that could be declared constant (constable-states) | 566, 544,<br>542, 543,<br>582, 592 | Add the `constant` attributes to state variables that never change                          |
| #2    | Main | Functions that are not used  | 830                                | Remove unused functions   |
| #3    | Main | Unused state variables   | 566                                | Remove unused state variables   |
| #4    | Main | NatSpec<br>documentation<br>missing                                | -                                  | If you started to comment<br>your code, also comment all<br>other functions, variables etc. |

| #5 | Main | Misspelling | See<br>description | Change following words and make sure to change it everywhere else as well, if necessary:  |
|----|------|-------------|--------------------|---|
|    |      |             |                    | <ul> <li>Independend to<br/>Independent L61</li> <li>recieve to receive L637</li> <li>swaping to swapping L637</li> <li>doesnt to doesn't L671</li> <li>getDistributionHolderListL<br/>enth to<br/>getDistributionHolderListL<br/>ength L772</li> </ul> |

### **Audit Comments**

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information <a href="https://docs.soliditylang.org/en/v0.5.10/natspec-format.html">https://docs.soliditylang.org/en/v0.5.10/natspec-format.html</a>) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

#### 18. March 2022:

- · Excluded addresses cannot call reflect
- Distribution token contract address was not part of the audit. Please do your own research here
  - Address: 0x56cf3526DbE2ec162D0Ad3bF4bb5535980A9Fd1A
  - Link: <a href="https://bscscan.com/address/">https://bscscan.com/address/</a>
     0x56cf3526dbe2ec162d0ad3bf4bb5535980a9fd1a#code
- Read whole report for more information

# **SWC Attacks**

| ID                                   | Title  | Relationships  | Status        |
|--------------------------------------|--|--|---------------|
| <u>SW</u><br><u>C-1</u><br><u>36</u> | Unencrypted<br>Private Data<br>On-Chain                        | CWE-767: Access to Critical Private Variable via Public Method         | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>35</u> | Code With No<br>Effects  | CWE-1164: Irrelevant Code  | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>34</u> | Message call with hardcoded gas amount                         | CWE-655: Improper Initialization                                       | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>33</u> | Hash Collisions With Multiple Variable Length Arguments        | CWE-294: Authentication Bypass by Capture-replay                       | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>32</u> | Unexpected<br>Ether balance                                    | CWE-667: Improper Locking  | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>31</u> | Presence of unused variables                                   | CWE-1164: Irrelevant Code  | NOT<br>PASSED |
| <u>SW</u><br><u>C-1</u><br><u>30</u> | Right-To-Left-<br>Override<br>control<br>character<br>(U+202E) | CWE-451: User Interface (UI) Misrepresentation of Critical Information | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>29</u> | Typographical<br>Error   | CWE-480: Use of Incorrect Operator                                     | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>28</u> | DoS With<br>Block Gas<br>Limit                                 | CWE-400: Uncontrolled Resource Consumption                             | PASSED        |

| <u>SW</u><br><u>C-1</u><br><u>27</u> | Arbitrary Jump with Function Type Variable                   | CWE-695: Use of Low-Level Functionality                   | PASSED        |
|--------------------------------------|--|---|---------------|
| <u>SW</u><br><u>C-1</u><br><u>25</u> | Incorrect<br>Inheritance<br>Order                            | CWE-696: Incorrect Behavior Order                         | PASSED        |
| <u>SW</u><br>C-1<br>24               | Write to<br>Arbitrary<br>Storage<br>Location                 | CWE-123: Write-what-where Condition                       | PASSED        |
| SW<br>C-1<br>23                      | Requirement<br>Violation                                     | CWE-573: Improper Following of Specification by Caller    | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>22</u> | Lack of Proper<br>Signature<br>Verification                  | CWE-345: Insufficient Verification of Data Authenticity   | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>21</u> | Missing Protection against Signature Replay Attacks          | CWE-347: Improper Verification of Cryptographic Signature | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>20</u> | Weak Sources<br>of<br>Randomness<br>from Chain<br>Attributes | CWE-330: Use of Insufficiently Random Values              | PASSED        |
| <u>SW</u><br><u>C-11</u><br><u>9</u> | Shadowing<br>State Variables                                 | CWE-710: Improper Adherence<br>to Coding Standards        | NOT<br>PASSED |
| <u>SW</u><br><u>C-11</u><br><u>8</u> | Incorrect<br>Constructor<br>Name                             | CWE-665: Improper<br>Initialization                       | PASSED        |
| <u>SW</u><br><u>C-11</u><br><u>7</u> | Signature<br>Malleability                                    | CWE-347: Improper Verification of Cryptographic Signature | PASSED        |

| <u>SW</u><br><u>C-11</u><br><u>6</u> | Timestamp<br>Dependence                 | CWE-829: Inclusion of Functionality from Untrusted Control Sphere                                    | PASSED        |
|--------------------------------------|---|--|---------------|
| <u>SW</u><br><u>C-11</u><br><u>5</u> | Authorization<br>through<br>tx.origin   | CWE-477: Use of Obsolete Function  | PASSED        |
| <u>SW</u><br><u>C-11</u><br><u>4</u> | Transaction<br>Order<br>Dependence      | CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition') | PASSED        |
| <u>SW</u><br><u>C-11</u><br><u>3</u> | DoS with<br>Failed Call                 | CWE-703: Improper Check or Handling of Exceptional Conditions  | PASSED        |
| <u>SW</u><br><u>C-11</u><br><u>2</u> | Delegatecall<br>to Untrusted<br>Callee  | CWE-829: Inclusion of Functionality from Untrusted Control Sphere                                    | PASSED        |
| <u>SW</u><br><u>C-11</u><br>1        | Use of Deprecated Solidity Functions    | CWE-477: Use of Obsolete Function  | PASSED        |
| <u>SW</u><br><u>C-11</u><br><u>O</u> | Assert<br>Violation                     | CWE-670: Always-Incorrect Control Flow Implementation  | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>09</u> | Uninitialized<br>Storage<br>Pointer     | CWE-824: Access of Uninitialized Pointer   | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>08</u> | State Variable<br>Default<br>Visibility | CWE-710: Improper Adherence<br>to Coding Standards   | NOT<br>PASSED |
| <u>SW</u><br><u>C-1</u><br><u>07</u> | Reentrancy                              | CWE-841: Improper Enforcement of Behavioral Workflow   | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>06</u> | Unprotected SELFDESTRUC T Instruction   | CWE-284: Improper Access Control   | PASSED        |

| Unprotected<br>Ether<br>Withdrawal   | CWE-284: Improper Access Control  | PASSED   |
|--------------------------------------|---|--|
| Unchecked<br>Call Return<br>Value    | CWE-252: Unchecked Return Value   | PASSED   |
| Floating<br>Pragma                   | CWE-664: Improper Control of a Resource Through its Lifetime  | NOT<br>PASSED  |
| Outdated<br>Compiler<br>Version      | CWE-937: Using Components with Known Vulnerabilities  | PASSED   |
| Integer<br>Overflow and<br>Underflow | CWE-682: Incorrect Calculation  | PASSED   |
| Function<br>Default<br>Visibility    | CWE-710: Improper Adherence<br>to Coding Standards  | PASSED   |
|                                      |   |  |
|                                      |   |  |
|                                      |   |  |
|                                      |   |  |
|                                      | Ether Withdrawal  Unchecked Call Return Value  Floating Pragma  Outdated Compiler Version  Integer Overflow and Underflow  Function Default | Ether Withdrawal  Unchecked Call Return Value  Floating Pragma  Outdated Compiler Version  Integer Overflow and Underflow  Function Default Visibility  CWE-252: Unchecked Return Value  CWE-664: Improper Control of a Resource Through its Lifetime  CWE-937: Using Components with Known Vulnerabilities  CWE-682: Incorrect Calculation  CWE-710: Improper Adherence to Coding Standards |



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