

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

MADE IN GERMANY

# Audit

Security Assessment 07. January, 2022

For



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| Version | Date             | Description                                                                                      |
|---------|------------------|--------------------------------------------------------------------------------------------------|
| 1.0     | 06. January 2022 | <ul><li>Layout project</li><li>Automated- /Manual-Security<br/>Testing</li><li>Summary</li></ul> |

#### Network

Binance Smart Chain (BEP20)

#### Website

https://0xpad.io/

## **Telegram**

https://t.me/zeroXpad

#### **Twitter**

https://twitter.com/0xpad

#### Github

https://github.com/0xpad

#### Medium

https://medium.com/@0xPAD

## **Description**

Multichain launchpad and Decentralized Incubator Protocol. Decentralizing seed funding and giving everyone early access to innovative projects

## **Project Engagement**

During the 3rd of January 2022, **OxPad 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

- Staking
  - https://bscscan.com/address/
     0x9CC09f444887Aaf1CC10115D15c232824De9Cd21#code
- Sale
  - https://bscscan.com/address/
     0x083AFDD00ab4aDD97e7f70f0d7FBdeAb8f6D4b7E#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:

#### Sale

Context

Ownable

IERC20

ReentrancyGuard

Utils

## **Staking**

Context

Ownable

IERC20

IERC20\_LP

## **Tested Contract Files**

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

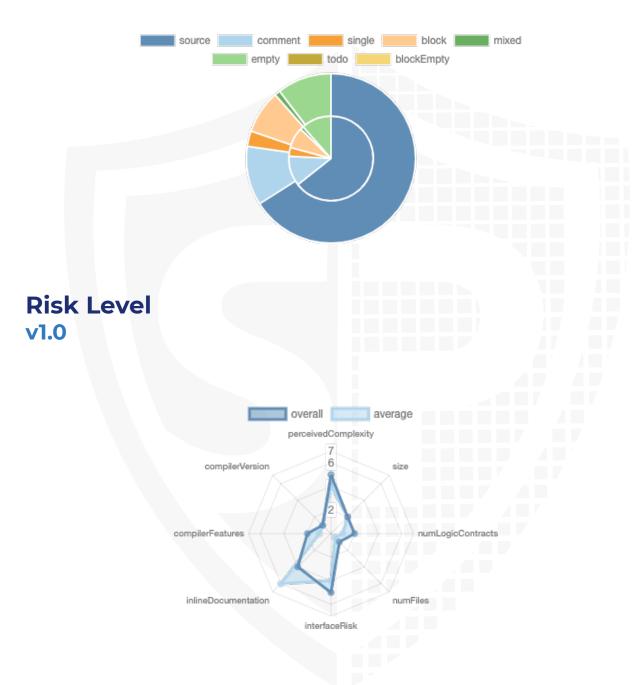
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

#### **v1.0**

| File Name             | SHA-1 Hash                               |
|-----------------------|------------------------------------------|
| contracts/staking.sol | 5f5d1601b7175ffb70a7b100381b5c740443c52a |
| contracts/sale.sol    | 887bff193d9b05ac985f466a83436fbaa2ab818d |

## **Metrics**

# Source Lines v1.0



## **Capabilities**

## **Components**

| Version | Contracts | Libraries | Interfaces | Abstract |
|---------|-----------|-----------|------------|----------|
| 1.0     | 3         | 0         | 3          | 5        |

## **Exposed Functions**

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

| Version | Public | Payable |
|---------|--------|---------|
| 1.0     | 107    | 1       |

| Version External |    | Internal | Private | Pure | View |
|------------------|----|----------|---------|------|------|
| 1.0              | 99 | 75       | 2       | 0    | 58   |

## **State Variables**

| Version | Total | Public |
|---------|-------|--------|
| 1.0     | 39    | 0      |

## **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     | 0.8.0                            |                              | yes                     | ****<br>(0 asm<br>blocks) |                                         |

| Version | Transf<br>ers<br>ETH | Low-<br>Level<br>Calls | Delega<br>teCall | Uses<br>Hash<br>Functi<br>ons | ECRec<br>over | New/<br>Create/<br>Create<br>2 |
|---------|----------------------|------------------------|------------------|-------------------------------|---------------|--------------------------------|
| 1.0     | yes                  |                        |                  |                               |               |                                |



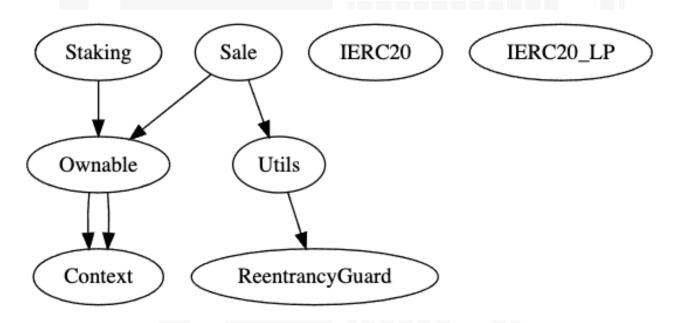
## **Scope of Work**

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)

# Inheritance Graph v1.0



## **Verify Claims**

## **Correct implementation of Token standard**

| Tested   | Verified |
|----------|----------|
| <b>√</b> | <b>√</b> |

| Function     | Description                                                                       | Exist        | Tested   | Verified     |
|--------------|-----------------------------------------------------------------------------------|--------------|----------|--------------|
| TotalSupply  | provides information about the total token supply                                 | $\checkmark$ | <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<br>number of tokens from a specified<br>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>     | 1        | ✓            |

# **Write functions of contract Sale**

20. setSaleOver

| aic                            |                            |
|--------------------------------|----------------------------|
| 1. addPaymentProfile           | 21. setSalePoolSize        |
| 2. addToManagers               | 22. setStartTime           |
| 3. addToWhitelist              |                            |
| 4. addToWhitelistMultiple      | 23. setTokenAddress        |
| 5. adminWithdraw               | 24. setTokenUsdRate        |
| 6. purchase                    | 25. setWhitelistEndTime    |
| 7. removeFromManagers          | 26. setWhitelistMode       |
| 8. removeFromWhitelist         | 27. setWithdrawalAvailable |
| 9. removeFromWhitelistMultiple | 27. Sottituda Wallabio     |
| 10. renounceOwnership          | 28. transferOwnership      |
| 11. setAssetsReceiverAddress   | 29. withdrawAllTokens      |
| 12. setBatchLimit              | 30. withdrawTokens         |
| 13. setEndTime                 |                            |
| 14. setMaxTokenAmount          |                            |
| 15. setPaymentProfileCurrency  |                            |
| 16. setPaymentProfileName      |                            |
| 17. setPaymentProfileStatus    |                            |
| 18. setPaymentProfileUsdRate   |                            |
| 19. setPaymentProfileWeight    |                            |
| 20 autCala Over                |                            |

## **Staking**

| Carring                   |
|---------------------------|
| adminAddDepositProfile    |
| . adminSetDepositApr      |
| adminSetDepositCurrency   |
| adminSetDepositLink       |
| . adminSetDepositLockTime |
| adminSetDepositName       |
| adminSetDepositRate       |
| adminSetDepositStatus     |
| adminSetDepositTax        |
| adminSetDepositWeight     |
| adminSetOxpadContract     |
| 2. adminSetSafeMode       |
| adminWithdrawOxpad        |
| 4. adminWithdrawToken     |
| 5. reStake                |
| 6. renounceOwnership      |
| 17. stake                 |
| 8. transferOwnership      |
| 19. unStake               |
| 20. withdrawYield         |

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

| Name                 | Exist | Tested | Verified |
|----------------------|-------|--------|----------|
| Deployer cannot mint | -     | -      | -        |

Max / Total Supply: 13.000.000.000.000.000.000.000

#### Comment

#### **v1.0**

· Deployer can set pool size

## Deployer cannot burn or lock user funds

| Name                    | Exist    | Tested   | Verified |
|-------------------------|----------|----------|----------|
| Deployer cannot<br>lock | <b>√</b> | <b>√</b> | X        |
| Deployer cannot<br>burn | -        | -        | -        |

#### Comments:

#### **v1.0**

- Deployer can lock user funds
  - By setting whitelistMode to true and address not included into whitelist mapping
  - · Deactivate active state from payment profiles to false
  - By setting \_startTime higher than block.timestamp
  - By setting maxTokenAmount to 1
  - By setting \_withdrawalAvailable to false

## **Deployer cannot pause the contract**

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



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

| Tested       | Verified     |
|--------------|--------------|
| $\checkmark$ | $\checkmark$ |

#### Legend

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

## **Modifiers**

#### Sale

purchaseAllowed

purchase 👸



#### onlyManager

addPaymentProfile

setPaymentProfileUsdRate

setPaymentProfileWeight

setPaymentProfileName

setPaymentProfileCurrency

setPaymentProfileStatus

setBatchLimit

setTokenUsdRate

setSalePoolSize

addToWhitelist

addToWhitelistMultiple

removeFromWhitelist

removeFromWhitelistMultiple

setMaxTokenAmount

setStartTime

setWhitelistEndTime

setEndTime

setWithdrawalAvailable

setTokenAddress

setSaleOver

setWhitelistMode

## onlyOwner

setAssetsReceiverAddress

addToManagers

removeFromManagers

adminWithdraw

#### Comments

- · Deployer can set following state variables without any limitations
  - States of paymentProfiles
  - batchLimit
  - \_tokenUsdRate
    - variable must be at least 1
  - salePoolSize
    - Variable must be at least totalPaidTokenAmount
  - \_maxTokenAmount
  - \_whitelistEndTime
  - endTime
- Deployer can enable/disable following state variables
  - whitelist
  - \_saleOver
  - \_withdrawalAvailable
  - \_managers

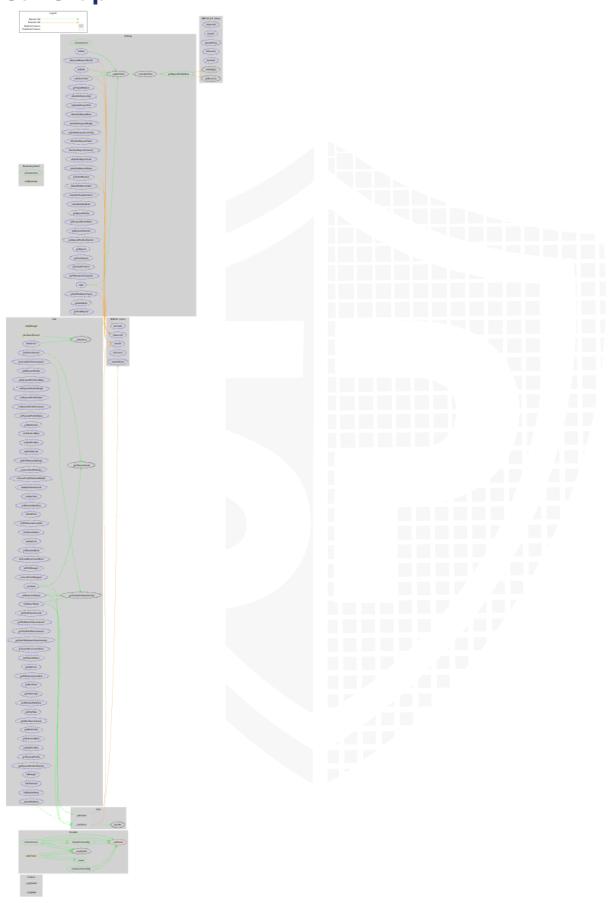
## **Staking**

adminAddDepositProfile
adminSetDepositApr
adminSetDepositTax
adminSetDepositRate
adminSetDepositWeight
adminSetDepositLockTime
adminSetDepositName
adminSetDepositCurrency
adminSetDepositLink
adminSetDepositStatus
adminWithdrawToken
adminWithdrawOxpad
adminSetOxpadContract
adminSetSafeMode

#### Comments

- Deployer can set following state variables without any limitations
  - States of depositProfiles
- Deployer can enable/disable following state variables
  - safeMode

## **CallGraph**



## **Source Units in Scope**

## v1.0

| Туре       | File                  | Logic Contracts | Interfaces | Lines | nLines | nSLOC | Comment Lines | Complex. Score | Capabilities |
|------------|-----------------------|-----------------|------------|-------|--------|-------|---------------|----------------|--------------|
| <b>200</b> | contracts/staking.sol | 3               | 2          | 675   | 578    | 447   | 70            | 247            | <u>*</u>     |
| <b>200</b> | contracts/sale.sol    | 5               | 1          | 701   | 634    | 460   | 109           | 286            | . <b>Š</b> . |
| <b></b>    | Totals                | 8               | 3          | 1376  | 1212   | 907   | 179           | 533            | . <b>Š</b> . |

## 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<br>are known to introduce code complexity (branches, loops, calls,<br>external interfaces,) |

## **Audit Results**

# **AUDIT PASSED**

## **Critical issues**

- no critical issues found -

## **High issues**

- no high issues found -

## **Medium issues**

| Issue | File | Type                         | Line          | Description                                                                        |
|-------|------|------------------------------|---------------|------------------------------------------------------------------------------------|
| #1    | Main | Unchecked tokens<br>transfer | 168, 179, 182 | Use `SafeERC20`, or ensure that the transfer/ transferFrom return value is checked |

## Low issues

| Issue | File             | Туре                                                                      | Line | Description                                                                                                                                              |
|-------|------------------|---------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1    | Staking,<br>Sale | 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    | Sale             | State variable visibility is not set                                      | 241  | It is best practice to set the visibility of state variables explicitly                                                                                  |

## Informational issues

| Issue | File    | Type                        | Line | Description                                           |
|-------|---------|-----------------------------|------|-------------------------------------------------------|
| #1    | Sale    | Functions that are not used | 23   | Remove unused functions                               |
| #2    | Staking | Format source code          | -    | Format source code of sol file for better readability |

| #3 | Staking | Comments                    | - | Comment everything else if you started to comment something |
|----|---------|-----------------------------|---|-------------------------------------------------------------|
| #4 | Sale    | Require statements messages | - | Start error messages with an uppercase word                 |

## **Audit Comments**

## 06. January 2022:

- Deployer can lock user funds
- · 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                                              | 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><u>C-1</u><br><u>24</u> | 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        | 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><u>1</u> | Use of<br>Deprecated<br>Solidity<br>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        |
| SW<br>C-1<br>06                      | Unprotected<br>SELFDESTRUC<br>T Instruction   | CWE-284: Improper Access Control                                                                     | PASSED        |

| SW<br>C-1<br>05                      | Unprotected<br>Ether<br>Withdrawal   | CWE-284: Improper Access Control                                   | PASSED |
|--------------------------------------|--------------------------------------|--------------------------------------------------------------------|--------|
| <u>SW</u><br><u>C-1</u><br><u>04</u> | Unchecked<br>Call Return<br>Value    | CWE-252: Unchecked Return Value                                    | PASSED |
| <u>SW</u><br><u>C-1</u><br><u>03</u> | Floating<br>Pragma                   | CWE-664: Improper Control of<br>a Resource Through its<br>Lifetime | PASSED |
| <u>SW</u><br><u>C-1</u><br><u>02</u> | Outdated<br>Compiler<br>Version      | CWE-937: Using Components with Known Vulnerabilities               | PASSED |
| <u>SW</u><br><u>C-1</u><br><u>01</u> | Integer<br>Overflow and<br>Underflow | CWE-682: Incorrect Calculation                                     | PASSED |
| <u>SW</u><br><u>C-1</u><br><u>00</u> | Function<br>Default<br>Visibility    | CWE-710: Improper Adherence<br>to Coding Standards                 | PASSED |
|                                      |                                      |                                                                    |        |



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