

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



# Souls of Meta

# Audit

Security Assessment 01. August, 2022

For



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| Version | Date             | Description  |
|---------|------------------|--|
| 1.0     | 15. April 2022   | <ul><li>Layout project</li><li>Automated- /Manual-Security Testing</li><li>Summary</li></ul> |
| 1.1     | 21. April 2022   | Reaudit Staking contract   |
| 1.2     | 10. May 2022     | Reaudit  |
| 1.3     | 01. August, 2022 | Reaudit  |

#### **Network**

Binance Smart Chain (BEP20) Polygon Matic

#### **Website**

https://soulsofmeta.io/

### **Telegram**

https://t.me/SoulsOfMetaOfficial

#### **Twitter**

https://twitter.com/SoulsOfMeta

#### **Facebook**

https://www.facebook.com/SoulsOfMeta

#### **Medium**

https://soulsofmeta.medium.com/

#### **Youtube**

https://www.youtube.com/channel/UCLVNKgHfKRt6DpagPgJSzwA?sub\_confirmation=1

# **Description**

SOULS OF META IS A CROSS-GAME MULTI-CHAIN FUN-2-EARN 3RD-PERSON ACTION RPG FANTASY NFT GAMING METAVERSE OF BLADES AND SORCERY. Where you can own, play, and monetize NFT assets through GameFi and SocialFi, and travel through community-created realms, fight monsters, collaborate with other players (PvE & PvP), solve quests and beyond, to have fun playing and earn at the same time!

## **Project Engagement**

During the 13th of April 2022, **Soul of Meta 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.

### Logo



#### **Contract Link**

#### **v1.0**

- Github
  - https://github.com/SOULS-OF-META/Smart-Contracts
  - Commit: 127004510c8603b82dfab3743a53a90116f244f0

#### **v1.1**

- Github
  - https://github.com/SOULS-OF-META/Smart-Contracts
  - Commit: 29026e16299cf164ba8882e3d5c6530f94125eff

#### **v1.1**

- Github
  - https://github.com/SOULS-OF-META/Smart-Contracts
  - Commit: 3e28c11beae31f809c7f7143764e61f9d6479da

#### v1.3

#### Github

- https://github.com/SOULS-OF-META/Smart-Contracts/blob/Mnet/ SOMToken.sol
- Commit: 02ccaffe86bf4354d28f4a87052f011bb94aa0aa

# **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<br>not have a significant<br>impact on possible<br>scenarios for the use of<br>the contract and is<br>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 does<br>not determine a level of<br>risk        |

# <u>Auditing Strategy and Techniques</u> <u>Applied</u>

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-by-line 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:
  - 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:

| Dependency / Import Path   | Count |
|--|-------|
| @openzeppelin/contracts/access/Ownable.sol                           | 3     |
| @openzeppelin/contracts/security/Pausable.sol                        | 1     |
| @openzeppelin/contracts/security/ReentrancyGuard.sol                 | 1     |
| @openzeppelin/contracts/token/ERC20/ERC20.sol                        | 1     |
| @openzeppelin/contracts/token/ERC20/IERC20.sol                       | 1     |
| @openzeppelin/contracts/token/ERC721/extensions/ERC721URIStorage.sol | 2     |
| @openzeppelin/contracts/utils/Address.sol                            | 2     |
| @openzeppelin/contracts/utils/Context.sol                            | 1     |
| @openzeppelin/contracts/utils/Counters.sol                           | 2     |
| @openzeppelin/contracts/utils/math/SafeMath.sol                      | 2     |

## **Tested Contract Files**

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

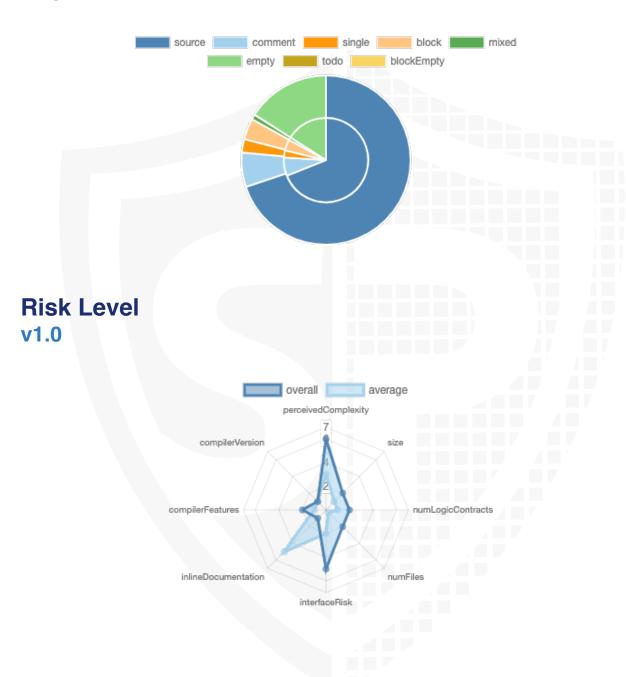
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

#### **v1.0**

| File Name                              | SHA-1 Hash                               |
|--|--|
| contracts/NFT Minter POLYGON CHAIN.sol | 63d17a8fe9b9bdfe54af15b11cac027f1a0f64d1 |
| contracts/NFT Minter BSC.sol           | 63d17a8fe9b9bdfe54af15b11cac027f1a0f64d1 |
| contracts/Vesting.sol                  | 818230086508a112eb7366699d7c5f40477b4679 |
| contracts/utils/AccessProtected.sol    | 35f6aa08ede13290bf009a4764f91a3baa5bd0aa |
| contracts/SOM Staking.sol              | 3198f2152cb004675d991289b8481ad92a1e9681 |
| contracts/SOM Token.sol                | 2949c82e161cc9658f477a68f22aa2ae2b3de0bf |

# **Metrics**

# Source Lines v1.0



# **Capabilities**

### **Components**

| Version | Contracts | Libraries | Interfaces | Abstract |
|---------|-----------|-----------|------------|----------|
| 1.0     | 5         | 0         | 3          | 4        |

# **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 | Version Public Payable |   |  |
|---------|------------------------|---|--|
| 1.0     | 75                     | 4 |  |

| Version | External | Internal | Private | Pure | View |
|---------|----------|----------|---------|------|------|
| 1.0     | 36       | 70       | 18      | 6    | 27   |

#### **State Variables**

| Version | Total | Public |
|---------|-------|--------|
| 1.0     | 51    | 31     |

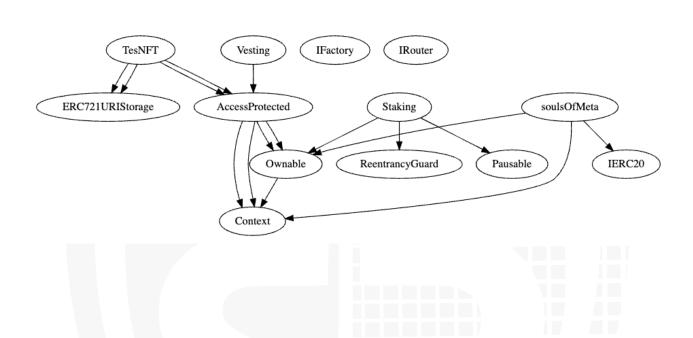
# **Capabilities**

| Version | Solidity<br>Versions<br>observed | Experime<br>ntal<br>Features | Can<br>Receive<br>Funds | Uses<br>Assembly | Has<br>Destroya<br>ble<br>Contracts |
|---------|----------------------------------|------------------------------|-------------------------|------------------|-------------------------------------|
| 1.0     | ^0.8.4<br>0.8.4<br>^0.8.7        |                              | yes                     |                  |                                     |

| 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               |                        |                      |                               |                       |                            |

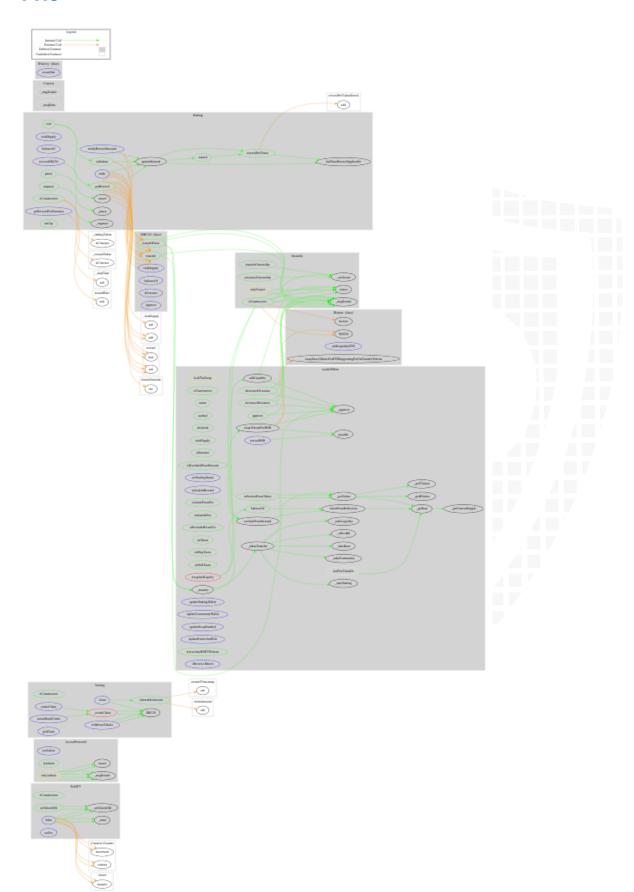
# **Inheritance Graph**

### 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:

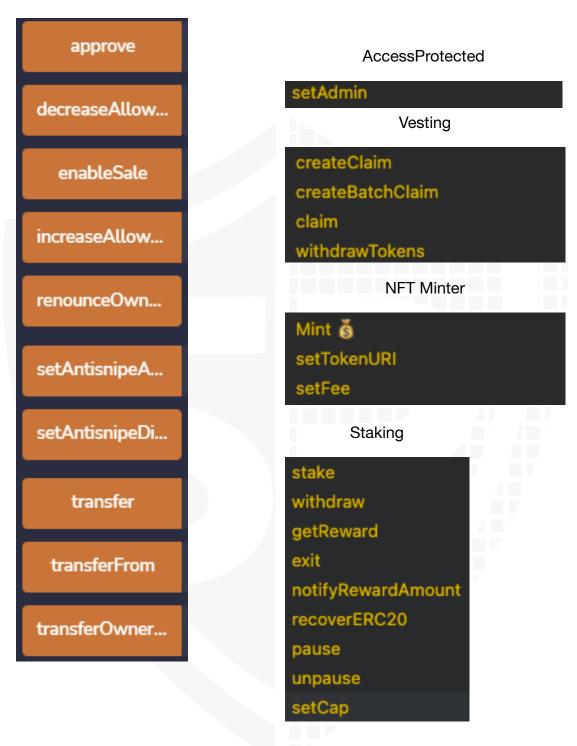
- 1. Correct implementation of Token standard
- 2. Deployer cannot mint any new tokens
- 3. Deployer cannot burn or lock user funds
- 4. Deployer cannot pause the contract
- 5. Overall checkup (Smart Contract Security)

# **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                             | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
| Transfer     | Executes transfers of a specified number of tokens to a specified address   | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
| TransferFrom | Executes transfers of a specified number of tokens from a specified address | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
| Approve      | Allow a spender to withdraw a set number of tokens from a specified account | <b>√</b>     | <b>√</b>     | ✓            |  |  |  |  |
| Allowance    | Returns a set number of tokens from a spender to the owner                  | <b>√</b>     | <b>√</b>     | <b>√</b>     |  |  |  |  |

| ERC721            |  |              |          |              |  |  |
|-------------------|--|--------------|----------|--------------|--|--|
| Function          | Description  | Exist        | Tested   | Verified     |  |  |
| BalanceOf         | Count all NFTs assigned to an owner  | $\checkmark$ | ✓        | $\checkmark$ |  |  |
| OwnerOf           | Find the owner of an NFT   | <b>√</b>     | <b>√</b> | $\checkmark$ |  |  |
| SafeTransferFrom  | Transfers the ownership of an NFT from one address to another address                            | <b>√</b>     | <b>√</b> | $\checkmark$ |  |  |
| SafeTransferFrom  | See above - Difference is that this function has an extra data parameter                         | $\checkmark$ | <b>√</b> | $\checkmark$ |  |  |
| TransferFrom      | Transfer ownership of an NFT   | $\checkmark$ | <b>√</b> | $\checkmark$ |  |  |
| Approve           | Change or reaffirm the approved address for an NFT   | $\checkmark$ | <b>√</b> | $\checkmark$ |  |  |
| SetApprovalForAll | Enable or disable approval for a third party ("operator") to manage all of `msg.sender`'s assets | <b>√</b>     | <b>√</b> | <b>√</b>     |  |  |
| GetApproved       | Get the approved address for a single NFT  | <b>√</b>     | <b>√</b> | $\checkmark$ |  |  |
| IsApprovedForAll  | Query if an address is an authorized operator for another address                                | <b>√</b>     | <b>√</b> | <b>√</b>     |  |  |
| SupportsInterface | Query if a contract implements an interface  | <b>√</b>     | <b>√</b> | $\checkmark$ |  |  |
| Name              | Provides information about the name  | <b>√</b>     | <b>√</b> | $\checkmark$ |  |  |
| Symbol            | Provides information about the symbol  | <b>√</b>     | <b>√</b> | $\checkmark$ |  |  |
| TokenURI          | Provides information about the TokenUri  | <b>√</b>     | 1        | <b>√</b>     |  |  |

# Write functions of contract v1.0



# **Deployer cannot mint any new tokens**

| Name                 | Exist    | Tested   | Status   |
|----------------------|----------|----------|----------|
| Deployer cannot mint | <b>√</b> | <b>√</b> | <b>√</b> |
| Max / Total Supply   |          | 300      | 0000000  |

#### Comments:

#### v1.0

· Everybody can mint new nft

# Deployer cannot burn or lock user funds

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

#### Comments:

#### v1.0

- Tokens will be burned while tx
- It is possible that the antisnipe.assureCanTransfer function can lock user funds because antisnipe contract was not provided to solidproof. Please do your own research here.

# **Deployer cannot pause the contract**

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

#### Comments:

#### v1.0

Owner can pause contract



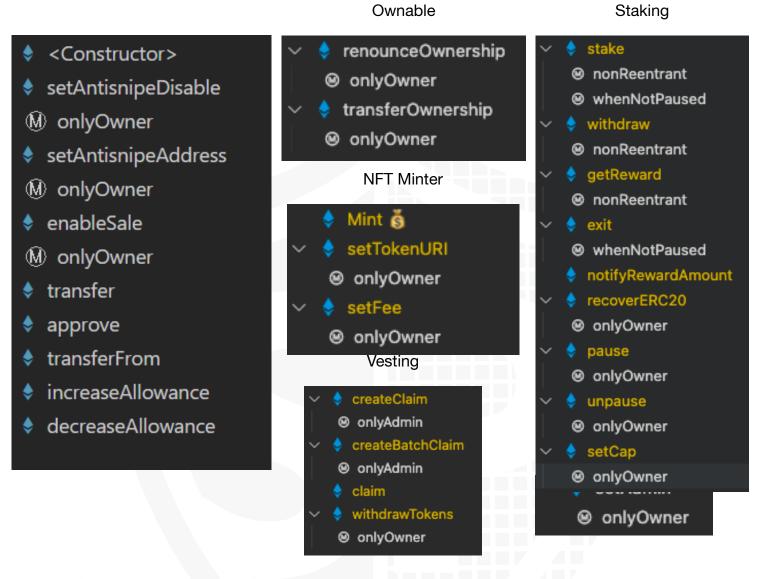
# **Overall checkup (Smart Contract Security)**



#### Legend

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

## **Modifiers and public functions**



#### v1.0

Note: Not listed functions are functions from library

#### **Comments**

- Deployer can set following state variables without any limitations
  - NFT Minter
    - fee
- Deployer can enable/disable following state variables
  - Token
    - antisnipeEnabled
- Deployer can set following addresses
  - Token
    - antisnipe

- NFT Minter
  - \_tokenURIs[tokenId]
- AccessProtected
  - \_admins[admin]
- Vesting
  - Only admin can create new claim
    - If "inUnlockedAmount" of a claim is 0 the calculation in L160 will return 0
      - L160: (\_claim.inUnlockedAmount\*\_claim.totalAmount)/100
  - Claim function
    - We recommend to check for "unclaimedAmount >0" in L180
    - Set state variable before transferring
- Staking
  - If the stakingCap is set to totalSupply you are not able to stake. Investors
    have to wait for that someone withdraw to reduce the totalsupply

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     |
|-----------------------------------|--|--------------------|------------|-------|--------|-------|------------------|-------------------|------------------|
| 9                                 | contracts/NFT Minter POLYGON CHAIN.sol | 1                  |            | 56    | 52     | 28    | 10               | 26                | . <u>Š</u>       |
| 9                                 | contracts/NFT Minter BSC.sol           | 1                  |            | 56    | 52     | 28    | 10               | 26                | . <u>Š</u> .     |
| <b>&gt;</b>                       | contracts/Vesting.sol                  | 2                  |            | 192   | 163    | 128   | 17               | 82                | <u>*</u>         |
| <b>%</b>                          | contracts/utils/AccessProtected.sol    | 1                  |            | 42    | 42     | 20    | 17               | 16                |                  |
| <b>₽</b> Q                        | contracts/SOM Token.sol                | 3                  | 3          | 619   | 576    | 451   | 23               | 326               | . <b>Š</b> .     |
| <b> ⊘ Q N O O O O O O O O O O</b> | Totals                                 | 8                  | 3          | 965   | 885    | 655   | 77               | 476               | <u>. Š</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    | Vesting | Missing Zero Address<br>Validation (missing-zero-<br>check) | 1139 | Check that the address is not zero                       |
| #2    | Minters | Local variables shadowing                                   | 32   | Rename the local variables that shadow another component |
| #3    | Minters | Missing Events Arithmetic                                   | 52   | Emit an event for critical parameter changes             |

### Informational issues

| Issue | File | Type        | Line               | Description                                     |
|-------|------|-------------|--------------------|---|
| #1    | Main | Misspelling | See<br>description | Change following words:                         |
|       |      |             |                    | Make sure to change it everywhere else as well. |

| #2 | All | NatSpec documentation missing | - | If you started to comment your code, also comment all other |
|----|-----|-------------------------------|---|---|
|    |     |                               |   | functions, variables etc.                                   |

## **Audit Comments**

# 01. August 2022:

Read whole report for more information. Please read "modifiers and public functions" section carefully

# **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<br>With Multiple<br>Variable Length<br>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 control<br>character<br>(U+202E)      | CWE-451: User Interface (UI)  Misrepresentation of Critical  Information | PASSED |
| SW<br>C-1<br>29                      | Typographical<br>Error   | CWE-480: Use of Incorrect Operator                                       | PASSED |
| <u>SW</u><br><u>C-1</u><br><u>28</u> | DoS With Block<br>Gas 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 |

| SW<br>C-1<br>24                      | Write to<br>Arbitrary<br>Storage<br>Location              | CWE-123: Write-what-where Condition  | PASSED        |
|--------------------------------------|---|--|---------------|
| <u>SW</u><br><u>C-1</u><br><u>23</u> | 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>21        | Missing Protection against Signature Replay Attacks       | CWE-347: Improper Verification of Cryptographic Signature  | PASSED        |
| <u>SW</u><br>C-1<br>20               | Weak Sources<br>of Randomness<br>from Chain<br>Attributes | CWE-330: Use of Insufficiently Random Values   | PASSED        |
| <u>SW</u><br>C-1<br>19               | Shadowing<br>State Variables                              | CWE-710: Improper Adherence to Coding Standards  | NOT<br>PASSED |
| <u>SW</u><br><u>C-1</u><br><u>18</u> | Incorrect<br>Constructor<br>Name                          | CWE-665: Improper Initialization   | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>17</u> | Signature<br>Malleability                                 | CWE-347: Improper Verification of Cryptographic Signature  | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>16</u> | Timestamp<br>Dependence                                   | CWE-829: Inclusion of Functionality from Untrusted Control Sphere                                    | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>15</u> | Authorization through tx.origin                           | CWE-477: Use of Obsolete Function  | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>14</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-1</u><br><u>13</u> | DoS with Failed<br>Call                | CWE-703: Improper Check or Handling of Exceptional Conditions     | PASSED        |
|--------------------------------------|--|---|---------------|
| <u>SW</u><br><u>C-1</u><br><u>12</u> | Delegatecall to<br>Untrusted<br>Callee | CWE-829: Inclusion of Functionality from Untrusted Control Sphere | PASSED        |
| SW<br>C-1<br>11                      | Use of Deprecated Solidity Functions   | CWE-477: Use of Obsolete Function                                 | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>10</u> | Assert Violation                       | CWE-670: Always-Incorrect Control Flow Implementation             | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>09</u> | Uninitialized<br>Storage Pointer       | CWE-824: Access of Uninitialized Pointer                          | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>08</u> | State Variable<br>Default Visibility   | CWE-710: Improper Adherence to Coding Standards                   | 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        |
| <u>SW</u><br><u>C-1</u><br><u>05</u> | Unprotected<br>Ether<br>Withdrawal     | CWE-284: Improper Access Control                                  | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>04</u> | Unchecked Call<br>Return Value         | CWE-252: Unchecked Return Value                                   | PASSED        |
| <u>SW</u><br><u>C-1</u><br><u>03</u> | Floating Pragma                        | CWE-664: Improper Control of a Resource Through its Lifetime      | NOT<br>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 Overflow and Underflow | CWE-682: Incorrect Calculation                  | PASSED |
|--------------------------------------|--------------------------------|---|--------|
| <u>SW</u><br><u>C-1</u><br><u>00</u> | Function Default<br>Visibility | CWE-710: Improper Adherence to Coding Standards | PASSED |





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