

Blockchain Security | Smart Contract Audits | KYC Development | Marketing



# InpulseX Staking

# Audit

Security Assessment 09. March, 2023

For







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| Version | Date              | Description   |
|---------|-------------------|---|
| 1.0     | 23. February 2023 | <ul><li>Layout project</li><li>Automated-/Manual-Security Testing</li><li>Summary</li></ul> |
| 1.1     | 9. March 2023     | · Reaudit   |

#### **Network**

Ethereum, BSC, Avalanche, and Polygon

#### Website

http://www.inpulsex.io/

### **Telegram**

https://t.me/InpulseX\_Official

#### **Twitter**

https://twitter.com/InpulseX\_io

#### Discord

https://discord.gg/kH6PaHsNHK

#### **Facebook**

https://www.facebook.com/InpulseX/

#### Instagram

http://www.instagram.com/the\_nftx/

#### **TikTok**

https://www.tiktok.com/@inpulsex\_official

#### Medium

https://medium.com/@InpulseX\_Official

## **Description**

InpulseX is an ambitious project created to offer unwavering support to the biggest mission of humankind, which is to become a multiplanetary species.

The InpulseX ecosystem will take the lead within the blockchain community, bringing awareness and raising financial resources to help write this exciting new chapter.

Together we will make history.

## **Project Engagement**

During the Date of 23 February 2023, **InpulseX 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

- https://github.com/KenshiTech/InpulseX/tree/master/staking
- Commit: b82c25db7333303f34aae4363d17f608717f275ec

#### **V1.1**

- https://github.com/KenshiTech/InpulseX/tree/master/staking
- Commit: 8c872789d3d06a74ede9d7d2081a42d469be6102

## **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: v1.0

- ../Base.sol
- ../interfaces/IERC20.sol
- ../interfaces/IERC1155.sol
- ../interfaces/IERC1155Receiver.sol

- ../Base.sol
- ../interfaces/IERC1155.sol
- ../interfaces/IERC1155Receiver.sol
- ../interfaces/IERC1363.sol
- ../interfaces/IERC1363Receiver.sol

- ../Base.sol
- ../interfaces/IERC20.sol
- ../rewards/ERC20.sol
- ../rewards/ERC1155.sol
- ../Base.sol
- ../interfaces/IERC20.sol
- ../interfaces/IERC721.sol
- ../interfaces/IERC721Receiver.sol
- ../rewards/ERC20.sol
- ../rewards/ERC1155.sol

## **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.

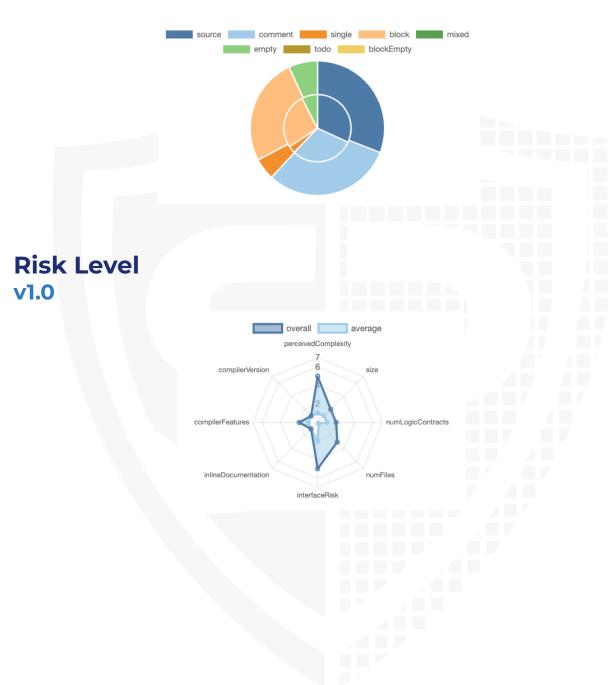
#### **v1.0**

| File Name                       | SHA-1 Hash                                   |
|---------------------------------|--|
| contracts/interfaces/           | bbb2af818780ce0aee1910aa988e4                |
| IERC165.sol                     | c2d3738bcfb                                  |
| contracts/interfaces/           | f4b26a591eefe329d454153d428a58               |
| IERC1363.sol                    | f4977191c2                                   |
| contracts/interfaces/           | 72b322bc3ebf8acc82847969d9628                |
| IERC1363Receiver.sol            | e5c1373ea9f                                  |
| contracts/interfaces/           | 2b4172e8f2424ad2ad30f888474c3d               |
| IERC721.sol                     | 31e07230a8                                   |
| contracts/interfaces/           | a212fd8cab21a6d07adcb22cb3e04                |
| IERC1155.sol                    | 61a40e17047                                  |
| contracts/interfaces/           | 91959bd12baa5a3922d1c686f6e15                |
| IERC1363Spender.sol             | 86aac04fe13                                  |
| contracts/interfaces/           | ed74e31fbacf270281fc36ff0e16e49              |
| IERC721Receiver.sol             | ea6637ee1                                    |
| contracts/interfaces/           | d12019ad5816a2b6007c59278a5af                |
| IERC1155Receiver.sol            | 9947af04dd5                                  |
| contracts/interfaces/IERC20.sol | e31040bd37a737946ff14ab726582b<br>b99f22d35e |
| contracts/interfaces/           | 841bc27064d5a0652115b3832c586                |
| IERC721Enumerable.sol           | 87fbab5e41c                                  |
| contracts/Repo.sol              | 0b03cb7e65a135d12fa3d0661a965<br>93663bf9e01 |

| contracts/staking/ERC1363.sol   | eea7fe107f9e57547beea73784276d<br>aad35d4a3f |
|---------------------------------|--|
| contracts/staking/ERC721.sol    | 8bb319394a59b060c226d81b11086<br>ff9158ba73c |
| contracts/staking/ERC20.sol     | a5e83ce3e17b52ccf1b072a4c200cb<br>faa630ef81 |
| contracts/staking/ERC1155.sol   | fc0245d3989b16aae6326a7fd47ebe<br>06fdf7c8fe |
| contracts/Base.sol              | 1ba4c2f74dc91d350b4cff4fa48e482<br>30f8ed479 |
| contracts/utils/NFTSweep.sol    | 104961e6f54efdd1b6654f07008479<br>469f154385 |
| contracts/libraries/Context.sol | 7b80abcebc3aefb2e038554fe625f0<br>486a92cce2 |
| contracts/libraries/Address.sol | 042ebb5c266fa61fbab8035f02824c<br>050cc6e89d |
| contracts/libraries/Ownable.sol | ebde8ee4a2625d1784506ced979a9<br>1e5faad6308 |
| contracts/rewards/ERC20.sol     | 7af0134aa55596282af5af73290387f<br>98c51a990 |
| contracts/rewards/ERC1155.sol   | 24bea42990479bd33c56ec7b4776b<br>31704931937 |
|                                 |  |
|                                 |  |

## **Metrics**

# Source Lines v1.0



## **Capabilities**

## **Components**



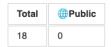
#### **Exposed Functions**

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

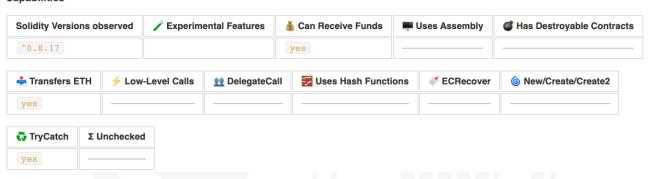


| External | Internal | Private | Pure | View |
|----------|----------|---------|------|------|
| 87       | 58       | 0       | 5    | 41   |

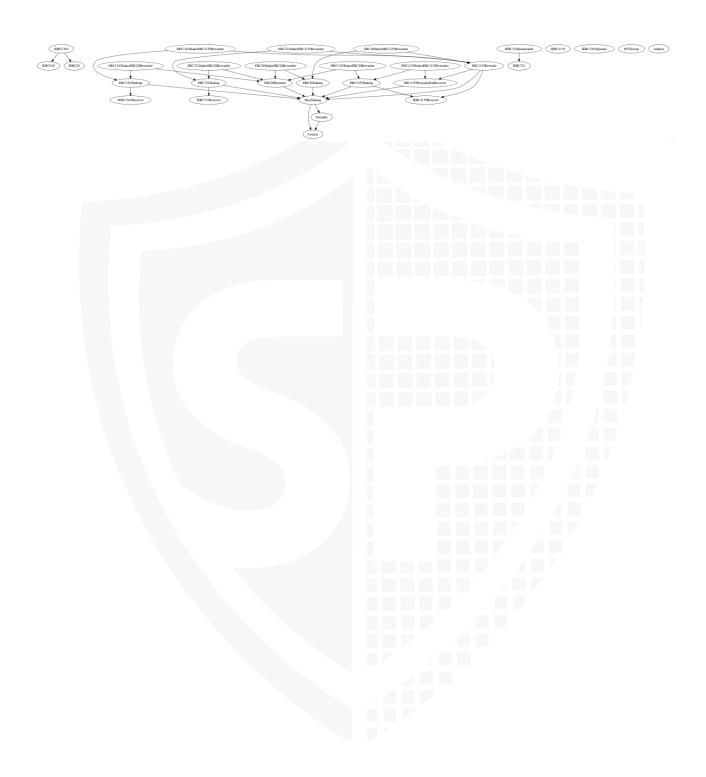
#### StateVariables



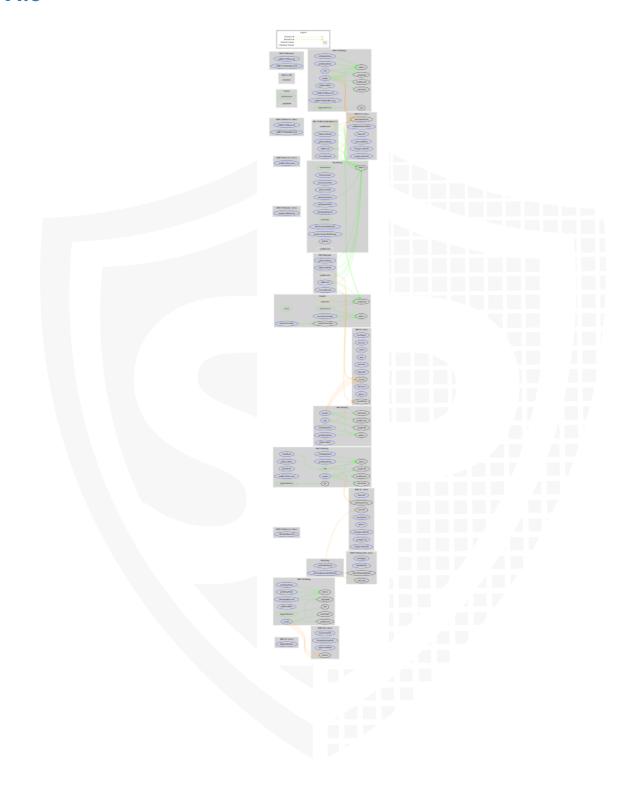
#### Capabilities



# 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. Is contract an upgradeable
- 2. Deployer cannot mint any new tokens
- 3. Deployer cannot burn or lock user funds
- 4. Deployer cannot pause the contract
- 5. Deployer cannot set fees
- 6. Deployer cannot blacklist/antisnipe addresses
- 7. Overall checkup (Smart Contract Security)

## Is contract an upgradeable

| Name                        |    |
|-----------------------------|----|
| Is contract an upgradeable? | No |



## Write functions of contract v1.1

- setUnlockTime
- setPenaltyAddress
- allowUnstakeWithPenalty
- disallowUnstakeWithPenalty
- setStakingToken
- stake
- stakeMany
- unstake
- setStakingToken
- unstake
- onTransferReceived

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

| Name                 | Exist | Tested | Status |
|----------------------|-------|--------|--------|
| Deployer cannot mint | -     | _      | -      |
| Max / Total Supply   | N/A   |        |        |



## Deployer cannot burn or lock user funds

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

#### Comments:

#### **v1.0**

 Owner cannot lock user funds by changing the staking token address because it can only be set once

## **Deployer cannot pause the contract**

| Name               | Exist | Tested | Status |
|--------------------|-------|--------|--------|
| Deployer can pause | -     | -      | _      |



## **Deployer cannot set fees**

| Name   | Exist        | Tested   | Status       |
|--|--------------|----------|--------------|
| Deployer cannot set fees over 25%                  | $\checkmark$ | <b>√</b> | $\checkmark$ |
| Deployer cannot set fees to nearly 100% or to 100% | <b>√</b>     | <b>√</b> | $\checkmark$ |

#### Comments:

#### **v1.1**

• The owner can set the penalty fees for any address to up to 25% only

## Deployer can blacklist/antisnipe addresses

| Name  | Exist | Tested | Status |
|---|-------|--------|--------|
| Deployer cannot blacklist/antisnipe addresses | -     | _      | _      |



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



### Legend

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

# Modifiers and public functions v1.1

rewards/ERC20.sol

- setRewardToken
- addReward
- recoverRewards

rewards/ERC1155.sol

- setRewardToken
- addReward
- recoverRewards

Base.sol

- setUnlockTime
- setPenaltyAddress
- allowUnstakeWithPenalty
- disallowUnstakeWithPenalty

Staking/ERC20.sol

- setStakingToken
- stake 🕏
- unstake

Staking/ERC721.sol

- setStakingToken
- stake
- stakeMany
- unstake

#### Staking/ERC1363.sol

- setStakingToken
- unstake
- onTransferReceived

### **Ownership Privileges:**

- Base.sol:
  - Owner can set unlock time for the staked tokens to any arbitrary value but only once
  - Allow/Disallow users to unstake with a penalty. Therefore, owner can do this to any address at any time but the penalty fees cannot be more than 25%
  - Set penalty receiver address.
- staking/ERC20.sol:
  - Owner can update the staking token address only once, and it cannot be updated
  - **Note:** This same exist with the staking of ERC1155, ERC721, and ERC1363
- rewards/ERC20.sol:
  - Set/Update reward token, but only once
  - Recover the tokens from contract. Hence, withdraw reward token from the contract.
  - In the contract, any user can transfer the reward token but only owner can withdraw it.
  - **Note:** This same exist with rewards/ERC721.sol,

# Source Units in Scope v1.0

| File                                       | Logic Contracts | Interfaces | Lines | nLines | nSLOC | Comment Lines | Complex. Score |
|--|-----------------|------------|-------|--------|-------|---------------|----------------|
| contracts/interfaces/IERC165.sol           |                 | 1          | 25    | 24     | 3     | 20            | 3              |
| contracts/interfaces/IERC1363.sol          |                 | 1          | 101   | 36     | 5     | 63            | 17             |
| contracts/interfaces/IERC1363Receiver.sol  |                 | 1          | 35    | 29     | 3     | 24            | 3              |
| contracts/interfaces/IERC721.sol           |                 | 1          | 129   | 43     | 18    | 74            | 31             |
| contracts/interfaces/IERC1155.sol          |                 | 1          | 149   | 77     | 23    | 89            | 13             |
| contracts/interfaces/IERC1363Spender.sol   |                 | 1          | 33    | 28     | 3     | 23            | 3              |
| contracts/interfaces/IERC721Receiver.sol   |                 | 1          | 24    | 18     | 3     | 14            | 3              |
| contracts/interfaces/IERC1155Receiver.sol  |                 | 1          | 49    | 21     | 3     | 30            | 5              |
| contracts/interfaces/IERC20.sol            |                 | 1          | 106   | 26     | 21    | 66            | 21             |
| contracts/interfaces/IERC721Enumerable.sol |                 | 1          | 33    | 13     | 4     | 19            | 9              |
| contracts/Repo.sol                         |                 |            | 7     | 7      | 5     | 1             |                |
| contracts/staking/ERC1363.sol              | 3               |            | 128   | 123    | 65    | 41            | 56             |
| contracts/staking/ERC721.sol               | 3               |            | 154   | 145    | 69    | 53            | 68             |
| contracts/staking/ERC20.sol                | 3               |            | 108   | 108    | 60    | 34            | 51             |
| contracts/staking/ERC1155.sol              | 3               |            | 171   | 159    | 91    | 47            | 61             |
| contracts/Base.sol                         | 1               |            | 128   | 124    | 58    | 50            | 42             |
| contracts/utils/NFTSweep.sol               | 1               |            | 57    | 48     | 29    | 16            | 43             |
| contracts/libraries/Context.sol            | 1               |            | 22    | 22     | 7     | 13            | 1              |
| contracts/libraries/Address.sol            | 1               |            | 43    | 43     | 6     | 35            | 1              |
| contracts/libraries/Ownable.sol            | 1               |            | 81    | 81     | 36    | 36            | 24             |
| contracts/rewards/ERC20.sol                | 1               |            | 70    | 67     | 38    | 22            | 33             |
| contracts/rewards/ERC1155.sol              | 2               |            | 118   | 103    | 65    | 29            | 45             |
| Totals                                     | 20              | 10         | 1771  | 1345   | 615   | 799           | 533            |

## Legend

| Attribute     | Description   |
|---------------|---|
| Lines         | total lines of the source unit  |
| nLines        | normalised lines of the source unit (e.g. normalises functions spanning multiple lines) |
| nSLOC         | normalised source lines of code (only source-code lines; no comments, no blank lines)   |
| Comment Lines | lines containing single or block comments   |

|                  | a custom complexity score derived from code statements that     |
|------------------|---|
| Complexity Score | are known to introduce code complexity (branches, loops, calls, |
|                  | external interfaces,)   |



## **Audit Results**

### **Critical issues**

#### No critical issues

## **High issues**

## No high issues

### **Medium issues**

#### No medium issues

### Low issues

#### No low issues

### Informational issues

#### No informational issues

#### **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/latest/natspec-format.html">https://docs.soliditylang.org/en/latest/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.

#### 09. March 2023:

- · There is still an owner (Owner still has not renounced ownership)
- · Read whole report and modifiers section 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<br>with<br>hardcoded<br>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>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><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  | 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<br>Call Return<br>Value    | CWE-252: Unchecked Return Value                              | PASSED |
| SW<br>C-1<br>03                      | Floating<br>Pragma                   | CWE-664: Improper Control of a Resource Through its Lifetime | PASSED |
| SW<br>C-1<br>02                      | 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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