



SOLIDProof

Bring trust into your projects

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

MADE IN GERMANY

Space Fi

Audit

Security Assessment
28. March, 2023

For



SolidProof_io



@solidproof_io

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| Version | Date | Description |
|---------|----------------|--|
| 1.0 | 27. March 2023 | <ul style="list-style-type: none">• Layout project• Automated- /Manual-Security Testing• Summary |

Network

Ethereum (ERC20)

Website

<https://space-pi.com>

Telegram

https://t.me/SpacePi_com

Twitter

https://twitter.com/SpacePi_Com



Description

SpacePi Token, SpacePi, combines the two blockchain categories of NFT and metaverse, aims to create a decentralized online virtual reality game platform, integrating characters, props and life storylines into virtual social interaction, where players can buy weapons, armor and prop gems in the virtual world. Participate in different collection to develop virtual, life, action and other games. Thus, SpacePi is the first and only cross metaverse and NFT domain project. All the benefits of SpacePi are presented as the native token SpacePi in the game.

Project Engagement

During the 25th of March 2023, **SpacePi 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/SpacePiCom/Contract>
 - Commit: <https://github.com/SpacePiCom/Contract/commit/f8ee86c5515982f75fd36b1a9b10198e45499480>

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 as possible. |
| 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 does not determine a 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-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:
 - 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:

Context
Ownable
IERC165
IERC721
IERC721Enumerable
 Math
 Strings
 ECDSA
ReentrancyGuard
 MerkleProof
 SafeMath
IRelationship
Relationship
IMintNft
IERC20
ERC721Distributor

IERC20
 SafeMath
ERC20
SpacePiERC20Token

Context
Ownable
IERC20Permit
IERC20
 Address
 SafeERC20
 MerkleProof
IMerkleDistributor
MerkleDistributor
MerkleDistributorWithDeadline

Context
Ownable
ReentrancyGuard
IERC20
 SafeMath
IRelationship
Relationship
FixedDeposit

Context
Ownable
IERC20
IERC20Metadata
ERC20
IERC20Permit
 Address
 SafeERC20
ReentrancyGuard
 SafeMath
 EnumerableSet
IMasterChefBSC
IMintNft
NFTMiner

Tested Contract Files

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

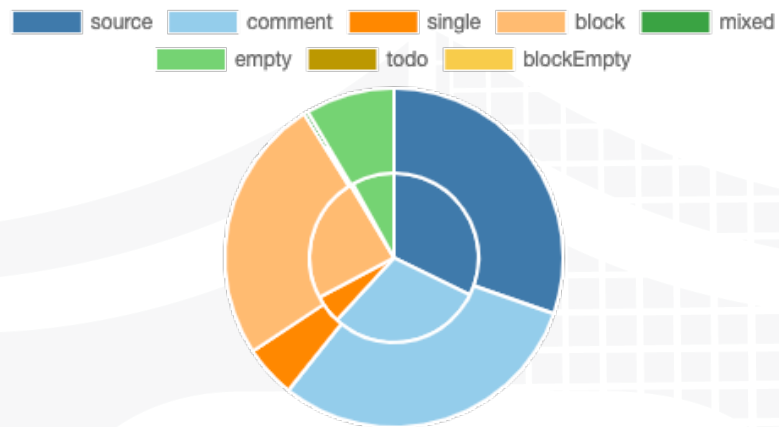
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

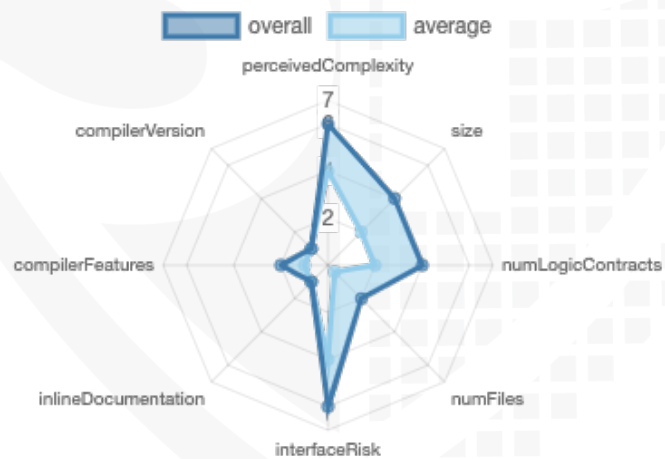
| File Name | SHA-1 Hash |
|---|--|
| contracts/StakeSpacePi.sol | e21de412925838c2477b9e26c2910829e5d4890d |
| contracts/SpacePiToken.sol | f1a79fb594eef6c5950e7b7d9daeabcf4c082211 |
| contracts/MerkleDistributorWithDeadline.sol | bd82f0de565b313f75a8510d208e160e563cd6c2 |
| contracts/ERC721Distributor.sol | 5d08674259365d1489312289743b60691f779dd4 |
| contracts/NFTMiner.sol | b08b3e3d8a55e36564cf5e73d129e22e4b04eee4 |

Metrics

Source Lines v1.0



Risk Level v1.0



Capabilities

Components

| Version | Contracts | Libraries | Interfaces | Abstract |
|---------|-----------|-----------|------------|----------|
| 1.0 | 10 | 14 | 17 | 11 |

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 | 165 | 1 |

| Version | External | Internal | Private | Pure | View |
|---------|----------|----------|---------|------|------|
| 1.0 | 80 | 340 | 32 | 96 | 119 |

State Variables

| Version | Total | Public |
|---------|-------|--------|
| 1.0 | 76 | 42 |

Capabilities

| Version | Solidity Versions observed | Experimental Features | Can Receive Funds | Uses Assembly | Has Destroyable Contracts |
|---------|---|-----------------------|-------------------|------------------------|---------------------------|
| 1.0 | <code>^0.8.0</code> <code>^0.5.0</code> <code>^0.8.1</code> | | yes | yes (13 asm blocks) | |

| Version | Transfers ETH | Low-Level Calls | DelegateCall | Uses Hash Functions | EC Recover | New/Create/Create2 |
|---------|---------------|-----------------|--------------|---------------------|------------|--------------------|
| 1.0 | yes | | yes | 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. Is contract an upgradeable
2. Overall checkup (Smart Contract Security)



Is contract an upgradeable

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



Correct implementation of Token standard

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

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

Write functions of contract v1.0

| ▼ MERKLEDISTRIBUTORWITHDEADLINE |
|---------------------------------|
| claim |
| renounceOwnership |
| setLimit |
| transferOwnership |
| withdraw |

| ▼ SPACEPIERC20TOKEN |
|---------------------|
| approve |
| burn |
| decreaseAllowance |
| increaseAllowance |
| transfer |
| transferFrom |

| ▼ ERC721DISTRIBUTOR |
|---------------------|
| binding |
| claim |
| removePrice |
| renounceOwnership |
| setCashier |
| setEnds |
| setNFT |
| setPrice |
| setStart |
| setTotal |
| transferOwnership |

| ▼ FIXEDDEPOSIT |
|-------------------|
| addPool |
| binding |
| claim |
| deposit |
| renounceOwnership |
| setEnds |
| setPool |
| setPoolApr |
| setPoolLocked |
| setStart |
| transferOwnership |
| withdraw |

| ▼ NFTMINER |
|--------------------|
| add |
| addMultiLP |
| approve |
| burnForExchangeNFT |
| deposit |
| increaseAllowance |
| massUpdatePools |
| decreaseAllowance |
| emergencyWithdraw |
| renounceOwnership |
| replaceMultiLP |
| set |
| setMultiLP |
| setNFT |
| setPause |
| setPerBlock |
| setPoolCorr |
| transfer |
| transferFrom |
| transferOwnership |
| updatePool |
| withdraw |

Overall checkup (Smart Contract Security)

| Tested | Verified |
|--------|----------|
| ✓ | ✓ |

Legend

| Attribute | Symbol |
|--------------------------|--------|
| Verified / Checked | ✓ |
| Partly Verified | 🚩 |
| Unverified / Not checked | ✗ |
| Not available | — |

Modifiers and public functions

v1.0

ERC721Distributor

MerkleDistributorWithDeadline

- removePrice
 - onlyOwner
- setPrice
 - onlyOwner
- setTotal
 - onlyOwner
- setNFT
 - onlyOwner
- setCashier
 - onlyOwner
- claim
 - nonReentrant
 - inDuration

- claim
- withdraw
 - onlyOwner
- setLimit
- claim
- renounceOwnership
 - onlyOwner
- transferOwnership
 - onlyOwner

NFTMiner

| | |
|--|---|
| <ul style="list-style-type: none"> setNFT <ul style="list-style-type: none"> onlyOwner setPerBlock <ul style="list-style-type: none"> onlyOwner addMultLP <ul style="list-style-type: none"> onlyOwner setPause <ul style="list-style-type: none"> onlyOwner setMultLP <ul style="list-style-type: none"> onlyOwner replaceMultLP <ul style="list-style-type: none"> onlyOwner add <ul style="list-style-type: none"> onlyOwner set <ul style="list-style-type: none"> onlyOwner setPoolCorr <ul style="list-style-type: none"> onlyOwner massUpdatePools updatePool deposit <ul style="list-style-type: none"> notPause isOpening withdraw <ul style="list-style-type: none"> notPause emergencyWithdraw <ul style="list-style-type: none"> notPause burnForExchangeNFT <ul style="list-style-type: none"> hasQuota | <ul style="list-style-type: none"> transfer approve transferFrom increaseAllowance decreaseAllowance |
|--|---|

StakeSpacePi

| |
|--|
| <ul style="list-style-type: none"> addPool <ul style="list-style-type: none"> onlyOwner setPoolApr <ul style="list-style-type: none"> onlyOwner setPoolLocked <ul style="list-style-type: none"> onlyOwner setPool <ul style="list-style-type: none"> onlyOwner deposit <ul style="list-style-type: none"> nonReentrant onlyInvited inDuration withdraw <ul style="list-style-type: none"> nonReentrant onlyUnLock claim <ul style="list-style-type: none"> nonReentrant setEnds <ul style="list-style-type: none"> onlyOwner setStart <ul style="list-style-type: none"> onlyOwner binding <ul style="list-style-type: none"> inDuration |
|--|

Comments

- StakeSpacePi
 - Owner is able to
 - Set start to an arbitrary value without limitations
 - Set end to an arbitrary value without limitations
 - It will lock user funds if the owner set the end time to a expired timestamp.
- SpacePiToken
 - Anyone can burn own tokens
- NftMiner
 - burnForExchangeNFT

- Since the withdrawCoin is called with the amount of 0 the require statement in L2167 is unnecessary because the user amount cannot below 0
- Owner is able to
 - pause following functions
 - If it is not paused
 - replaceMultiLP function
 - If it is paused
 - Deposit
 - Withdraw
 - emergencyWithdraw
 - Set pool correspond without any limitations
 - Update the given pool's coin allocation point
 - Add a new lp to the pool
 - Add multi lp
 - Set the perBlock variable without any limitations
 - Replace multi lp
 - Set multi lp token and chef
 - Set pause
 - Update nft address
- MerkleDistributorWithDeadline
 - Owner is able to withdraw all contract tokens after the end time is expired
- ERC721Distributor
 - Owner is able to set
 - the cashier
 - The nft address
 - Total variable to an arbitrary value
 - Set prices to any value
 - Remove prices

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

Source Units in Scope

v1.0

| Type | File | Logic Contracts | Interfaces | Lines | nLines | nSLOC | Comment Lines | Complex. Score | Capabilities |
|------|---|-----------------|------------|-------------|-------------|-------------|---------------|----------------|--------------|
| | contracts/StakeSpacePi.sol | 6 | 2 | 811 | 708 | 358 | 334 | 239 | |
| | contracts/SpacePiToken.sol | 3 | 1 | 487 | 403 | 123 | 297 | 100 | |
| | contracts/MerkleDistributorWithDeadline.sol | 7 | 3 | 973 | 752 | 328 | 438 | 250 | |
| | contracts/ERC721Distributor.sol | 10 | 6 | 1747 | 1517 | 738 | 729 | 571 | |
| | contracts/NFTMiner.sol | 9 | 5 | 2239 | 1978 | 941 | 964 | 663 | |
| | Totals | 35 | 17 | 6257 | 5358 | 2488 | 2762 | 1823 | |

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

Audit Results

Critical issues

No critical issues

High issues

| Issue | File | Type | Line | Description |
|-------|-----------------------------------|-------|------|--|
| #1 | MerkleDistributorWithDeadline.sol | Claim | 919 | <p>Anyone is able to set the "perUserClaimLimit" for the contract. This represents the amount of tokens that will be transferred to the claim caller.</p> <p>It is recommended to add an onlyOwner modifier. Keep in mind that the value should not be able to set to 0 because nobody can claim tokens anymore otherwise.</p> |

Medium issues

No medium issues

Low issues

| Issue | File | Type | Line | Description |
|-------|-----------------------|---|------------|--|
| #1 | All | 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 | All | A floating pragma is set | — | The current pragma Solidity directive is „^0.8.0“. |
| #3 | ERC721Distributor.sol | Missing Zero Address Validation (missing-zero-check) | 1689, 1693 | Check that the address is not zero |
| #4 | SpacePiToken.sol | Local variables shadowing | 445 | Rename the local variables that shadow another component |

| | | | | |
|----|--------------|---------------------------|---------------------|--|
| #5 | NFTMiner.sol | Missing Events Arithmetic | All Owner Functions | Emit an event for critical parameter changes |
|----|--------------|---------------------------|---------------------|--|

Informational issues

| Issue | File | Type | Line | Description |
|-------|-----------------------------------|--|------------------|--|
| #1 | NFTMiner.sol | State variables that could be declared immutable | 1828, 1819, 1818 | Add the `immutable` attributes to state variables that never change |
| #2 | NFTMiner.sol | Unused return values | 1861, 1890 | Ensure that all the return values of the function calls are used and handle both success and failure cases if needed by the business logic |
| #3 | ERC721Distributor.sol | Misspelling | See description | Change following words: - transferStranded Make sure to change it everywhere else as well. |
| #4 | All | NatSpec documentation missing | — | If you started to comment your code, also comment all other functions, variables etc. |
| #5 | MerkleDistributorWithDeadline.sol | Multiple SPDX | See description | Remove or combine spdx licenses |

Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information <https://docs.soliditylang.org/en/latest/natspec-format.html>) 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.

28. March 2023:

- There is still an owner (Owner still has not renounced ownership)
- Owner can deploy a new version of the contract which can change any limit and give owner new privileges
- The actual code of the interface IMasterChefBSC used in the NFTMiner contract was not provided in the audit scope so we cannot comment on its security.
- Read whole report and modifiers section for more information

SWC Attacks

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

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

| | | | |
|---------------------------|--------------------------------------|--|---------------|
| SW C-11 6 | Timestamp Dependence | CWE-829: Inclusion of Functionality from Untrusted Control Sphere | PASSED |
| SW C-11 5 | Authorization through tx.origin | CWE-477: Use of Obsolete Function | PASSED |
| SW C-11 4 | Transaction Order Dependence | CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition') | PASSED |
| SW C-11 3 | DoS with Failed Call | CWE-703: Improper Check or Handling of Exceptional Conditions | PASSED |
| SW C-11 2 | Delegatecall to Untrusted Callee | CWE-829: Inclusion of Functionality from Untrusted Control Sphere | PASSED |
| SW C-11 1 | Use of Deprecated Solidity Functions | CWE-477: Use of Obsolete Function | PASSED |
| SW C-11 0 | Assert Violation | CWE-670: Always-Incorrect Control Flow Implementation | PASSED |
| SW C-1 09 | Uninitialized Storage Pointer | CWE-824: Access of Uninitialized Pointer | PASSED |
| SW C-1 08 | State Variable Default Visibility | CWE-710: Improper Adherence to Coding Standards | PASSED |
| SW C-1 07 | Reentrancy | CWE-841: Improper Enforcement of Behavioral Workflow | PASSED |
| SW C-1 06 | Unprotected SELFDESTRUCT Instruction | CWE-284: Improper Access Control | PASSED |

| | | | |
|---|--------------------------------------|--|-----------------------|
| SW C-1 05 | Unprotected Ether Withdrawal | CWE-284: Improper Access Control | PASSED |
| SW C-1 04 | Unchecked Call Return Value | CWE-252: Unchecked Return Value | PASSED |
| SW C-1 03 | Floating Pragma | CWE-664: Improper Control of a Resource Through its Lifetime | NOT PASSED |
| SW C-1 02 | Outdated Compiler Version | CWE-937: Using Components with Known Vulnerabilities | PASSED |
| SW C-1 01 | Integer Overflow and Underflow | CWE-682: Incorrect Calculation | PASSED |
| SW C-1 00 | Function Default Visibility | CWE-710: Improper Adherence to Coding Standards | PASSED |

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