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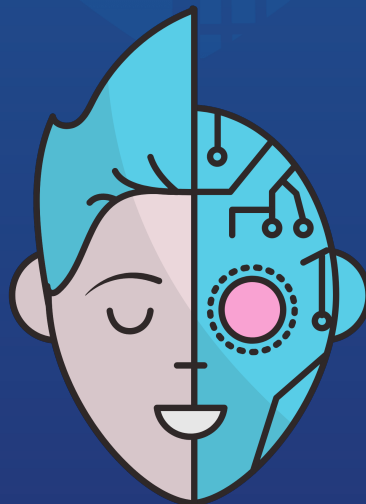
**Blockchain Security | Smart Contract Audits | KYC**

MADE IN GERMANY

# Audit

**Security Assessment**  
**28. July, 2021**

**For**



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## Disclaimer

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| Version | Date          | Description                         |
|---------|---------------|-------------------------------------|
| 1.0     | 26. July 2021 | Layout project                      |
|         | 27. July 2021 | Automated- /Manual-Security Testing |
|         | 28. July 2021 | Summary                             |

## **Network**

Binance Smart Chain (BEP20)

## **Website**

<https://robotoken.app/>

## **Telegram**

<https://t.me/robotokenofficial>

## **Twitter**

<https://twitter.com/tokenrobo?lang=en>

## **Github**

<https://github.com/roboapp>

## **Medium**

<https://medium.com/@RoboToken>

## **Instagram**

<https://www.instagram.com/tokenrobo/>

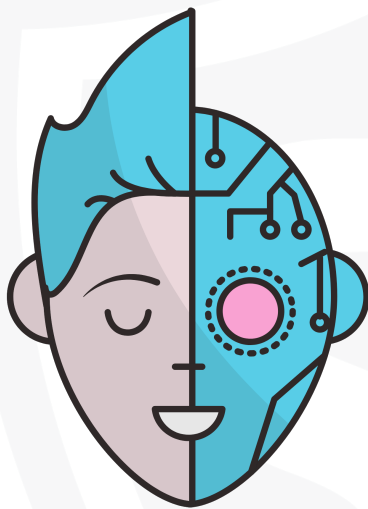
## Description

RoboToken is a modern eco-system with a BNB reward system, auto-claim, buy back, dex swap, and launchpad all under one token \$ROBO.

## Project Engagement

During the 26th of July 2021, **RoboToken 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. **RoboToken Team** provided Solidproof.io with access to their code repository and whitepaper.

## Logo



## Contract Link

TBA

# 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)  |
|----------------------|---------|---|---|
| <b>Critical</b>      | 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.                              |
| <b>High</b>          | 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.           |
| <b>Medium</b>        | 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.           |
| <b>Low</b>           | 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. |
| <b>Informational</b> | 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:

- OpenZeppelin
  - Address
  - Ownable
  - SafeMatch
- Uniswap
  - UniswapV2Factory
  - UniswapV2Pair
  - UniswapV2Router01
  - UniswapV2Router02





## Tested Contract Files

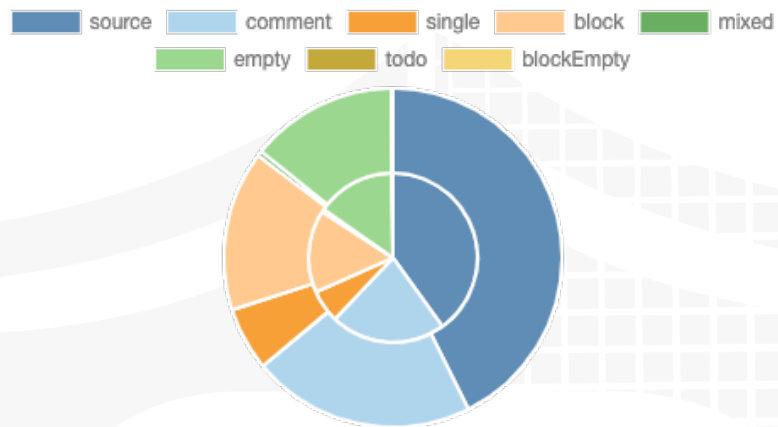
This audit covered the following files listed below with a SHA-1 Hash.

*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.*

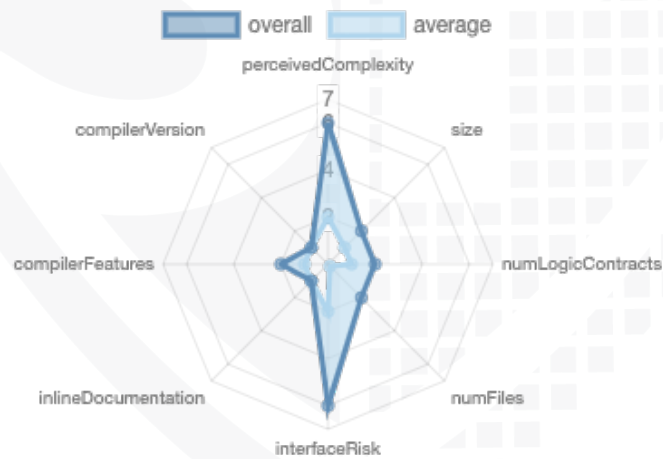
| File Name  | SHA-1 Hash                               |
|--|--|
| contracts/DividendPayingToken.sol                  | 633b4dff40098943e3725845028b7987be72ee83 |
| contracts/IUniswapV2Pair.sol                       | 05e647da1a2fa7934af97a8db4c9f78ad2c9d8d9 |
| contracts/SafeMathUint.sol                         | 7808353a4a6fe523b1c744e2572fe77582579725 |
| contracts/Context.sol                              | 3c3bf995d75c7830097481749c3bd2f6696d3026 |
| contracts/IUniswapV2Factory.sol                    | 91cbb4cce3b151becf39e1dfe36c51c8907e791  |
| contracts/DividendPayingTokenInterface.sol         | e6bfbae79ab8cac72fcfa1813bf576a232543b8  |
| contracts/IERC20Metadata.sol                       | 538888ee2b512d81e4bc2e666d10ac9a2e3d499d |
| contracts/SafeMathInt.sol                          | 3e72493239b14328c296eb20404dfa0de3a324c3 |
| contracts/SafeMath.sol                             | 96fc1b5e5afbed1c85e0c9b9b4edf61364b4e77b |
| contracts/Robo.sol                                 | 3d170a9c5ac19a07979a4145fb161aca8c4df607 |
| contracts/IUniswapV2Router.sol                     | 587ae175ab043b78a9bec57b3df8d315d2cf494c |
| contracts/Ownable.sol                              | f4e27b795348c1bbc5ee8055d19b7dd8cfe5ff70 |
| contracts/IterableMapping.sol                      | c5a0c8df26c889d8003190632a9157210dd92619 |
| contracts/ERC20.sol                                | 280344751f8c458bd6b61586bb45a090b73f0eb7 |
| contracts/DividendPayingTokenOptionalInterface.sol | 145167f2f8b9ec0fb5b33f0a1dd9b268c9bb6cc2 |
| contracts/IERC20.sol                               | 71ce18b11f2db4fd80a99dc8acc7782beb9d69b7 |
| contracts/ROBODividendTracker.sol                  | 82abf804f3455566a786697c2d95dc7c42f53f20 |

# Metrics

## Source Lines



## Risk Level



## Capabilities

### Components

| Contracts | Libraries | Interfaces | Abstract |
|-----------|-----------|------------|----------|
| 5         | 4         | 8          | 1        |

### Exposed Functions

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

| Public | Payable |
|--------|---------|
| 154    | 8       |

| External | Internal | Private | Pure | View |
|----------|----------|---------|------|------|
| 104      | 125      | 9       | 25   | 63   |

### State Variables

| Total | Public |
|-------|--------|
| 45    | 29     |

### Capabilities

| Solidity Versions observed | Experimental Features | Can Receive Funds | Uses Assembly          | Has Destroyable Contracts |
|----------------------------|-----------------------|-------------------|------------------------|---------------------------|
| ^0.6.2<br>0.6.12           |                       | Yes               | ****<br>(0 asm blocks) |                           |

| Transfers ETH | Low-Level Calls | Delegate Call | Uses Hash Functions | ECRecover | New/Create/Create2 |
|---------------|-----------------|---------------|---------------------|-----------|--------------------|
|---------------|-----------------|---------------|---------------------|-----------|--------------------|

|     |  |  |  |  |  |
|-----|--|--|--|--|--|
| yes |  |  |  |  | yes<br>→ NewContract:<br>ROBODiv<br>idendTracker |
|-----|--|--|--|--|--|



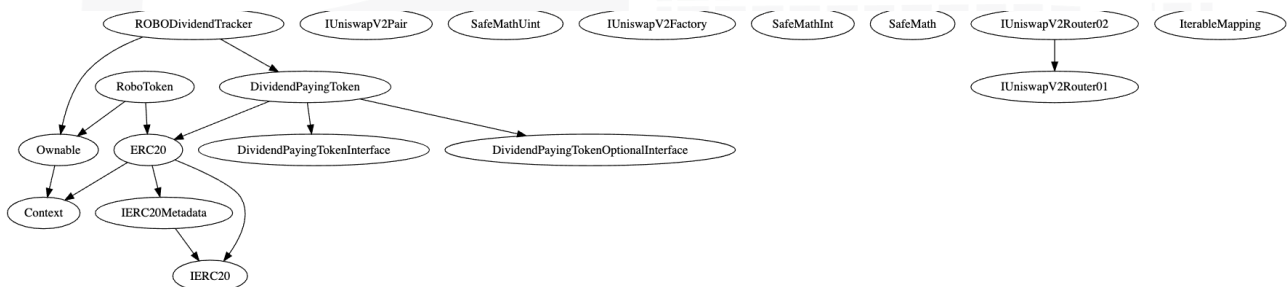
## Scope of Work

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



## Verify Claims

### Correct implementation of Token standard

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

| 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                  | ✓     | ✓      | ✓        |

### Optional implementations

| Function          | Description                             | Exist | Tested | Verified |
|-------------------|---|-------|--------|----------|
| renounceOwnership | Owner renounce ownership for more trust | ✓     | ✓      | ✓        |

## Deployer cannot mint any new tokens

| Tested | Verified | File | Comment |
|--------|----------|------|---------|
| ✓      | ✓        | Main | Line: - |

Max / Total Supply: 1.000.000.000

```
constructor() public ERC20("RoboToken", "ROBO") {
    uint256 _BNBRewardsFee = 10;
    uint256 _liquidityFee = 2;
    uint256 _buyBackFee = 4;
    // Rewards Pool is to store BNB in case of low volume. This can be adjusted at a later date.
    uint256 _rewardsPoolFee = 0;

    BNBRewardsFee = _BNBRewardsFee;
    liquidityFee = _liquidityFee;
    buyBackFee = _buyBackFee;
    rewardsPoolFee = _rewardsPoolFee;

    totalFees = BNBRewardsFee.add(liquidityFee).add(buyBackFee).add(rewardsPoolFee);

    dividendTracker = new ROBODividendTracker();

    liquidityWallet = owner();

    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(0xD99D1c33F9fC3444f8101754aBC46c52416550D1);
    // Create a uniswap pair for this new token
    address _uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
        .createPair(address(this), _uniswapV2Router.WETH());

    uniswapV2Router = _uniswapV2Router;
    uniswapV2Pair = _uniswapV2Pair;

    _setAutomatedMarketMakerPair(_uniswapV2Pair, true);

    // Exclude from receiving dividends
    dividendTracker.excludeFromDividends(address(dividendTracker));
    dividendTracker.excludeFromDividends(address(this));
    dividendTracker.excludeFromDividends(owner());
    dividendTracker.excludeFromDividends(deadAddress);
    dividendTracker.excludeFromDividends(address(_uniswapV2Router));

    // Exclude from paying fees or having max transaction amount
    excludeFromFees(liquidityWallet, true);
    excludeFromFees(address(this), true);

    /*
    _mint is an internal function in ERC20.sol that is only called here,
    and CANNOT be called ever again
    */
    _mint(owner(), 1000000000 * (10**18));
}
```

```
function _mint(address account, uint256 amount) internal virtual {
    require(account != address(0), "ERC20: mint to the zero address");

    _beforeTokenTransfer(address(0), account, amount);

    _totalSupply = _totalSupply.add(amount);
    _balances[account] = _balances[account].add(amount);
    emit Transfer(address(0), account, amount);
}
```

## Deployer cannot burn or lock user funds

| Name             | Tested | Exist | Verified |
|------------------|--------|-------|----------|
| No Lock function | ✓      | ✓     | ✓        |
| No Burn function | ✓      | ✓     | ✓        |





## Deployer cannot pause the contract

| Tested | Verified | No pause function |
|--------|----------|-------------------|
| ✓      | ✓        | ✓                 |



## Overall checkup (Smart Contract Security)

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






























### Legend

| Attribute                | Symbol |
|--------------------------|--------|
| Verified / Checked       | ✓      |
| Partly Verified          | ⚠      |
| Unverified / Not checked | ✗      |

# CallGraph



# Source Units in Scope

| Type  | File   | Logic Contracts | Interfaces | Lines       | nLines      | nSLOC      | Comment Lines | Complex. Score | Capabilities  |
|---|--|-----------------|------------|-------------|-------------|------------|---------------|----------------|---|
|  | contracts/DividendPayingToken.sol                  | 1               | ————       | 187         | 187         | 88         | 65            | 80             |    |
|  | contracts/IUniswapV2Pair.sol                       | ————            | 1          | 55          | 9           | 5          | 1             | 55             | ————  |
|  | contracts/SafeMathUint.sol                         | 1               | ————       | 16          | 16          | 8          | 5             | 3              | ————  |
|  | contracts/Context.sol                              | 1               | ————       | 25          | 25          | 10         | 12            | 1              | ————  |
|  | contracts/IUniswapV2Factory.sol                    | ————            | 1          | 20          | 8           | 4          | 1             | 17             | ————  |
|  | contracts/DividendPayingTokenInterface.sol         | ————            | 1          | 42          | 13          | 3          | 20            | 10             |    |
|  | contracts/IERC20Metadata.sol                       | ————            | 1          | 28          | 16          | 4          | 15            | 9              |    |
|  | contracts/SafeMathInt.sol                          | 1               | ————       | 93          | 93          | 33         | 47            | 16             | ————  |
|  | contracts/SafeMath.sol                             | 1               | ————       | 147         | 147         | 39         | 93            | 10             |    |
|  | contracts/Robo.sol                                 | 1               | ————       | 585         | 563         | 390        | 45            | 390            |     |
|  | contracts/IUniswapV2Router.sol                     | ————            | 2          | 143         | 7           | 4          | 2             | 64             |    |
|  | contracts/Ownable.sol                              | 1               | ————       | 58          | 58          | 27         | 21            | 25             | ————  |
|  | contracts/IterableMapping.sol                      | 1               | ————       | 64          | 64          | 49         | 2             | 19             | ————  |
|  | contracts/ERC20.sol                                | 1               | ————       | 311         | 295         | 85         | 178           | 82             | ————  |
|  | contracts/DividendPayingTokenOptionalInterface.sol | ————            | 1          | 26          | 13          | 3          | 14            | 7              | ————  |
|  | contracts/IERC20.sol                               | ————            | 1          | 82          | 27          | 17         | 57            | 13             |    |
|  | contracts/ROBODividendTracker.sol                  | 1               | ————       | 222         | 204         | 145        | 2             | 94             | ————  |
|  | <b>Totals</b>                                      | <b>10</b>       | <b>8</b>   | <b>2104</b> | <b>1745</b> | <b>914</b> | <b>580</b>    | <b>895</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 are known to introduce code complexity (branches, loops, calls, external interfaces, ...) |

# Audit Results

# AUDIT PASSED

## Critical issues

- no critical issues found -

## High issues

- no high issues found -

## Medium issues

- no medium issues found -

## Low issues

- no low issues found -

| Issue | File | Type                            | Line | Description  |
|-------|------|---------------------------------|------|--|
| #1    | Main | Call with hardcoded gas amount. | 396  | rewardsPool.transfer(address (this).balance.div(2)) forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions. |
| #2    | Main | Call with hardcoded gas amount. | 513  | rewardsPool.transfer(reward BNB) forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions.                    |
| #3    | Main | Call with hardcoded gas amount. | 575  | rewardsPool.transfer(reward BNB) forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions.                    |

## Informational issues

- no informational issues found -

## Audit Comments

27. July 2021: Wrong Routeraddress were used (Testnet router address: 0xD99D1c33F9fC3444f8101754aBC46c52416550D1)



## SWC Attacks

| ID                        | Title   | Relationships  | Status     |
|---------------------------|---|--|------------|
| <a href="#">SW C-13 6</a> | Unencrypted Private Data On-Chain                       | <a href="#">CWE-767: Access to Critical Private Variable via Public Method</a>         | PASSED     |
| <a href="#">SW C-13 5</a> | Code With No Effects                                    | <a href="#">CWE-1164: Irrelevant Code</a>  | PASSED     |
| <a href="#">SW C-13 4</a> | Message call with hardcoded gas amount                  | <a href="#">CWE-655: Improper Initialization</a>                                       | NOT PASSED |
| <a href="#">SW C-13 3</a> | Hash Collisions With Multiple Variable Length Arguments | <a href="#">CWE-294: Authentication Bypass by Capture-replay</a>                       | PASSED     |
| <a href="#">SW C-13 2</a> | Unexpected Ether balance                                | <a href="#">CWE-667: Improper Locking</a>  | PASSED     |
| <a href="#">SW C-13 1</a> | Presence of unused variables                            | <a href="#">CWE-1164: Irrelevant Code</a>  | PASSED     |
| <a href="#">SW C-13 0</a> | Right-To-Left-Override control character (U+202E)       | <a href="#">CWE-451: User Interface (UI) Misrepresentation of Critical Information</a> | PASSED     |
| <a href="#">SW C-12 9</a> | Typographical Error                                     | <a href="#">CWE-480: Use of Incorrect Operator</a>                                     | PASSED     |
| <a href="#">SW C-12 8</a> | DoS With Block Gas Limit                                | <a href="#">CWE-400: Uncontrolled Resource Consumption</a>                             | PASSED     |

|                           |   |   |               |
|---------------------------|---|---|---------------|
| <a href="#">SW C-12 7</a> | Arbitrary Jump with Function Type Variable          | <a href="#">CWE-695: Use of Low-Level Functionality</a>                   | <b>PASSED</b> |
| <a href="#">SW C-12 5</a> | Incorrect Inheritance Order                         | <a href="#">CWE-696: Incorrect Behavior Order</a>                         | <b>PASSED</b> |
| <a href="#">SW C-12 4</a> | Write to Arbitrary Storage Location                 | <a href="#">CWE-123: Write-what-where Condition</a>                       | <b>PASSED</b> |
| <a href="#">SW C-12 3</a> | Requirement Violation                               | <a href="#">CWE-573: Improper Following of Specification by Caller</a>    | <b>PASSED</b> |
| <a href="#">SW C-12 2</a> | Lack of Proper Signature Verification               | <a href="#">CWE-345: Insufficient Verification of Data Authenticity</a>   | <b>PASSED</b> |
| <a href="#">SW C-12 1</a> | Missing Protection against Signature Replay Attacks | <a href="#">CWE-347: Improper Verification of Cryptographic Signature</a> | <b>PASSED</b> |
| <a href="#">SW C-12 0</a> | Weak Sources of Randomness from Chain Attributes    | <a href="#">CWE-330: Use of Insufficiently Random Values</a>              | <b>PASSED</b> |
| <a href="#">SW C-11 9</a> | Shadowing State Variables                           | <a href="#">CWE-710: Improper Adherence to Coding Standards</a>           | <b>PASSED</b> |
| <a href="#">SW C-11 8</a> | Incorrect Constructor Name                          | <a href="#">CWE-665: Improper Initialization</a>                          | <b>PASSED</b> |
| <a href="#">SW C-11 7</a> | Signature Malleability                              | <a href="#">CWE-347: Improper Verification of Cryptographic Signature</a> | <b>PASSED</b> |



|                           |                                      |  |               |
|---------------------------|--------------------------------------|--|---------------|
| <a href="#">SW C-11 6</a> | Timestamp Dependence                 | <a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>                                    | <b>PASSED</b> |
| <a href="#">SW C-11 5</a> | Authorization through tx.origin      | <a href="#">CWE-477: Use of Obsolete Function</a>  | <b>PASSED</b> |
| <a href="#">SW C-11 4</a> | Transaction Order Dependence         | <a href="#">CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')</a> | <b>PASSED</b> |
| <a href="#">SW C-11 3</a> | DoS with Failed Call                 | <a href="#">CWE-703: Improper Check or Handling of Exceptional Conditions</a>  | <b>PASSED</b> |
| <a href="#">SW C-11 2</a> | Delegatecall to Untrusted Callee     | <a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>                                    | <b>PASSED</b> |
| <a href="#">SW C-111</a>  | Use of Deprecated Solidity Functions | <a href="#">CWE-477: Use of Obsolete Function</a>  | <b>PASSED</b> |
| <a href="#">SW C-11 0</a> | Assert Violation                     | <a href="#">CWE-670: Always-Incorrect Control Flow Implementation</a>  | <b>PASSED</b> |
| <a href="#">SW C-10 9</a> | Uninitialized Storage Pointer        | <a href="#">CWE-824: Access of Uninitialized Pointer</a>   | <b>PASSED</b> |
| <a href="#">SW C-10 8</a> | State Variable Default Visibility    | <a href="#">CWE-710: Improper Adherence to Coding Standards</a>  | <b>PASSED</b> |
| <a href="#">SW C-10 7</a> | Reentrancy                           | <a href="#">CWE-841: Improper Enforcement of Behavioral Workflow</a>   | <b>PASSED</b> |
| <a href="#">SW C-10 6</a> | Unprotected SELFDESTRUCT Instruction | <a href="#">CWE-284: Improper Access Control</a>   | <b>PASSED</b> |

|                                   |                                      |  |               |
|-----------------------------------|--------------------------------------|--|---------------|
| <a href="#">SW<br/>C-10<br/>5</a> | Unprotected<br>Ether<br>Withdrawal   | <a href="#">CWE-284: Improper Access<br/>Control</a>                                 | <b>PASSED</b> |
| <a href="#">SW<br/>C-10<br/>4</a> | Unchecked Call<br>Return Value       | <a href="#">CWE-252: Unchecked Return<br/>Value</a>                                  | <b>PASSED</b> |
| <a href="#">SW<br/>C-10<br/>3</a> | Floating<br>Pragma                   | <a href="#">CWE-664: Improper Control of<br/>a Resource Through its<br/>Lifetime</a> | <b>PASSED</b> |
| <a href="#">SW<br/>C-10<br/>2</a> | Outdated<br>Compiler<br>Version      | <a href="#">CWE-937: Using Components<br/>with Known Vulnerabilities</a>             | <b>PASSED</b> |
| <a href="#">SW<br/>C-10<br/>1</a> | Integer<br>Overflow and<br>Underflow | <a href="#">CWE-682: Incorrect Calculation</a>                                       | <b>PASSED</b> |
| <a href="#">SW<br/>C-10<br/>0</a> | Function<br>Default<br>Visibility    | <a href="#">CWE-710: Improper Adherence<br/>to Coding Standards</a>                  | <b>PASSED</b> |

The logo features the words "Solid Proofed" in a white, elegant script font. The word "Solid" is positioned above "Proofed". Behind the text is a faint, stylized shield emblem with a grid-like pattern, rendered in a darker shade of blue. The entire composition is set against a solid blue background.

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

A small horizontal bar representing the German flag, with black, red, and gold stripes.

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