

# Smart Contract Audit

**FOR** 

AIDODE3.0

DATED: 4 July 23'



# **AUDIT SUMMARY**

Project name - AIDODE3.0

**Date: 4** July, 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status: Passed** 

#### **Issues Found**

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	1	0	2
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



# **USED TOOLS**

#### Tools:

#### 1- Manual Review:

A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

#### 3-Slither:

The code has undergone static analysis using Slither.

#### **Testnet version:**

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/token/0xB4a99296989e6c F637c973b30bA181503BB95420



# **Token Information**

Token Name: AIDODE3.0

Token Symbol: AIDODE3.0

Decimals: 9

Token Supply: 2,100,000,000,000

#### **Token Address:**

0x015ac3c069909F6202340B768aD17E5C38A3c349

#### Checksum:

666e75b39d29acabb5178c89e9848d7b41227d93

#### Owner:

0xd7CD8b3442A19ae5E00493605C430a6182614E35 (at time of writing the audit)

#### Deployer:

0xd7CD8b3442A19ae5E00493605C430a6182614E35



# **TOKEN OVERVIEW**

Fees:

Buy Fees: 0-25%

Sell Fees: 0-25%

Transfer Fees: 0-25%

Fees Privilege: Owner

Ownership: owned

Minting: none

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: - Initial distribution of the tokens

- modifying fees



# **AUDIT METHODOLOGY**

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



# **VULNERABILITY CHECKLIST**





# **CLASSIFICATION OF RISK**

#### Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

#### **Description**

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

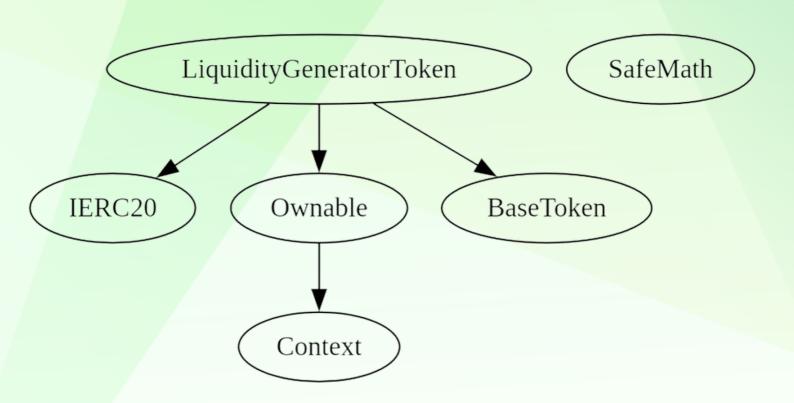
A vulnerability that has an informational character but is not affecting any of the code.

## **Findings**

Severity	Found
◆ Critical	0
◆ High-Risk	0
♦ Medium-Risk	1
♦ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	2



## **INHERITANCE TREE**





## **POINTS TO NOTE**

- Owner is able to change buy/sell/transfer fees in range 0-25%
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to disable trades
- Owner is not able to set max buy/sell/transfer/hold amount to 0
- Owner is not able to mint new tokens



```
Contract |
             Type
                         Bases
   | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| **IERC20** | Interface | |||
L | totalSupply | External | NO | |
 | balanceOf | External | NO | |
 L | transfer | External | | NO | |
 L | allowance | External | | NO | |
 | approve | External | | | NO | |
 transferFrom | External | | NO | |
**Context** | Implementation | |||
| L | msgSender | Internal 🔒 | | |
L | msgData | Internal 🔒 | | |
**Ownable** | Implementation | Context |||
 | owner | Public | | NO | |
 L | renounceOwnership | Public ! | • | onlyOwner |
 **SafeMath** | Library | |||
 L | tryAdd | Internal 🔒 | | |
 └ | trySub | Internal 🔒 | ||
 └ | tryMul | Internal 🔒 | | |
 └ | tryDiv | Internal 🔒 | ||
 L | tryMod | Internal 🔒 | | |
L | add | Internal 🔒 | | |
 └ | mul | Internal 🔒 | | |
 L | mod | Internal 🔒 | | |
└ | div | Internal 🔒 | | |
 └ | mod | Internal 🔒 | ||
| **Address** | Library | |||
 └ | isContract | Internal 🔒 | | |
 L | sendValue | Internal 🔒 | 🛑 | |
 └ | functionCall | Internal 🔒 | 🛑 | |
 └ | functionCall | Internal 🔒 | 🛑 | |
 L | functionCallWithValue | Internal |
```



```
└ | functionDelegateCall | Internal 🔒 | ●
└ | functionDelegateCall | Internal 🔒 | 🛑 | |
└ | verifyCallResult | Internal 🔒 | | |
**IUniswapV2Router01** | Interface | |||
| factory | External | | NO | |
WETH | External | | NO | |
| addLiquidity | External | | | NO | |
addLiquidityETH | External | | 1 NO | |
| removeLiquidity | External | | | | | | | | | | | | | | |
| removeLiquidityETHWithPermit | External | | | NO | |
L | swapExactTokensForTokens | External | | | NO |
L | swapTokensForExactTokens | External | | | NO | |
L | swapExactETHForTokens | External | NO |
L | swapTokensForExactETH | External | | | NO |
L | quote | External | | NO | |
L | getAmountOut | External | | NO | |
L | getAmountIn | External | | NO | |
L | getAmountsOut | External | | NO | |
L | getAmountsIn | External | | NO | |
**IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
**IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | |
L | feeToSetter | External | | NO | |
L | getPair | External | | NO | |
L | allPairs | External | | NO | |
L | allPairsLength | External | | NO | |
L | createPair | External | | | NO | |
```



```
| L | setFeeTo | External | | | NO | |
L | setFeeToSetter | External | | | NO | |
**BaseToken** | Implementation | |||
**LiquidityGeneratorToken** | Implementation | IERC20, Ownable, BaseToken |||
 Constructor> | Public | | NO | |
 L | name | Public | | NO | |
 L | symbol | Public | | NO | |
 L | decimals | Public | | NO | |
 L | totalSupply | Public | | NO | |
 L | balanceOf | Public | | NO | |
 L | transfer | Public | | | NO | |
 L | allowance | Public | | NO | |
 L | approve | Public | | | NO | |
 L | transferFrom | Public | | | NO | |
 L | decreaseAllowance | Public | | | NO | |
 L | isExcludedFromReward | Public | | NO | |
 L | totalFees | Public | | NO | |
 L | deliver | Public | | | NO | |
 | reflectionFromToken | Public | NO | |
 L | tokenFromReflection | Public | NO
 L | excludeFromReward | Public | | onlyOwner |
 L | transferBothExcluded | Private | | | | | | |
 L | excludeFromFee | Public | | • | onlyOwner |
 L | setCharityFeePercent | External | | | onlyOwner |
 L | < Receive Ether > | External | | INO | |
 □ reflectFee | Private | □ | □ | □
 L | getValues | Private 🔐 | | |
 L | getRate | Private 🔐 | | |
 L | getCurrentSupply | Private 🔐 | | |
 L | takeLiquidity | Private 🔐 | ● | |
 └ | calculateTaxFee | Private 🔐 | | |
| L | calculateLiquidityFee | Private | | | |
```



#### Legend



## STATIC ANALYSIS

```
Variable LiquidityGeneratorToken. _petvalues(unt256).rTransferAmount (contracts/Token.sole1289) is too similar to LiquidityGeneratorToken._petvalues(unt256).tTransferAmount (contracts/Token.sole1289) is too similar to LiquidityGeneratorToken._petvalues(unt256).tTransferAmount (contracts/Token.sole1287-1274) is too similar to LiquidityGeneratorToken._petvalues(unt256).tTransferAmount (contracts/Token.sole1287-1274) is too similar to LiquidityGeneratorToken._petvalues(unt256).tTransferAmount (contracts/Token.sole1287-1274) is too similar to LiquidityGeneratorToken._petvalues(unt256).tTransferAmount (contracts/Token.sole1287) is too similar to LiquidityGeneratorToken._petvalues(unt256).tTransferAmount (contracts/Token.sole1287) is too similar to LiquidityGeneratorToken._petvalues(unt256).tTransferAmount (contracts/Token.sole1287) is too similar to LiquidityGeneratorToken._petvalues(unt256).tValues(unt256).tTransferAmount (contracts/Token.sole1287) is too similar to LiquidityGeneratorToken._petvalues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tValues(unt256).tV
```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



#### Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

#### 1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x4ea163ceef3787da794809efa0f24d0 60fd6226c7cb5b0f96caf86382ca597d5

#### 2- Buying when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x14fc557ffe1131d34c1a1006adc597d3 cff0512ba2a7b1e506a63fb02e54b2bc

#### 3- Selling when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x616ee3cf42f855ea42484e9ea6d79fb 26943dbbbaf89052397397398f47f3b2b

#### 4- Transferring when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x9baaac178539e6c7f299e5bee2b0b8 b06b33c94ac750765de650d1e4ea776286

#### 5- Buying from a regular wallet (0-25% tax) (passed):

https://testnet.bscscan.com/tx/0x3a9e8b8bdf36ee2b26615d73d94e65 6bd7c49cafdd13455335c3d7c4ba24dab9

#### 6- Selling from a regular wallet (0-25% tax) (passed):

https://testnet.bscscan.com/tx/0xf11c669f1b5e8294b0ddadf2dd1d0ff4 33aba9dde606b5c5bd799d44062d9ffa



#### 7- Transferring from a regular wallet (0-25% tax) (passed):

https://testnet.bscscan.com/tx/0xa1d7e8e1adf8307454e52b8853b786 2b016d46c59d3165ec1d136ce7e399a468

#### 8- Internal swap (marketing bnb + auto-liquidity) (passed):

https://testnet.bscscan.com/tx/0xf11c669f1b5e8294b0ddadf2dd1d0ff4 33aba9dde606b5c5bd799d44062d9ffa



Category: Centralization

Subject: Fee setting and updating

Severity: Medium Status: not applicable

Overview:

The contract allows the owner to set and update various fees, including tax, liquidity, and charity fees. This centralizes control over the fee structure.

Each type of tax (buy, sell, transfer) can have 0-25% fee.

Code:

function setTaxFeePercent(uint256 taxFeeBps) external onlyOwner { ... }
function setLiquidityFeePercent(uint256 liquidityFeeBps) external onlyOwner { ... }
function setCharityFeePercent(uint256 charityFeeBps) external onlyOwner { ... }

#### Suggestion:

Ensure that sum of max buy and sell fee is less than 25% buy + sell fee <= 25% transfer fee <= 5%



Category: Centralization

Subject: Exclusion from fees and rewards

Severity: Informational Status: not applicable

Overview:

The contract allows the owner to exclude certain addresses from fees and rewards. This centralizes control over the

fee and reward distribution.

#### Code:

function excludeFromReward(address account) public onlyOwner  $\{ \dots \}$  function includeInReward(address account) external onlyOwner  $\{ \dots \}$  function excludeFromFee(address account) public onlyOwner  $\{ \dots \}$ 

#### Suggestion:

Consider implementing a decentralized governance mechanism to allow the community to decide on the exclusion or inclusion of addresses in fees and rewards.



Category: Centralization

Subject: Swap and liquify settings

Severity: Informational Status: not applicable

Overview:

The contract allows the owner to set the swap back settings, which affects the swap and liquify process. This

centralizes control over the contract's liquidity management.

Setting swap treshold to a large number can increase slippage % on sells

Code:

function setSwapBackSettings(uint256 \_amount) external onlyOwner { ... }

#### Suggestion:

Consider implementing a decentralized governance mechanism to allow the community to decide on the swap back settings and other liquidity management parameters.



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