

# Smart Contract Audit

**FOR** 

**VERB** 

**DATED: 26 Dec 23'** 



# **AUDIT SUMMARY**

Project name - VerbChain

Date: 26 Dec, 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	1	0
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.

#### 3-Slither:

The code has undergone static analysis using Slither.

#### **Testnet version:**

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

 $https://bscscan.com/address/\underline{0x87eC0CC13b739b244}\\ \underline{3C9A19CD8aa7a576da9621a}\#code$ 



# **Token Information**

#### **Token Address:**

0x87eC0CC13b739b2443C9A19CD8aa7a576da9621a

Name: VERB

Symbol: VERB

**Decimals: 18** 

Network: BscScan

Token Type: BEP-20

#### **Owner:**

0x9d487a34bb27a2a359b4eb41df22cc7f0a951455

#### **Deployer:**

0x9d487a34bb27a2a359b4eb41df22cc7f0a951455

#### **Mainnet:**

https://bscscan.com/address/0x87eC0CC13b739b2443C9A19CD8aa7a576da9621a



# **TOKEN OVERVIEW**

**Buy Fee: 0-1%** 

Sell Fee: 0-1%

Transfer Fee: 0-0%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: Yes

Blacklist: No



# **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-by-line in an attempt to identify potential vulnerabilities.

•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 is exercised 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**

Gasless Send Return values of low-level calls Private modifier Using block.timestamp Multiple Sends Re-entrancy Using Suicide Tautology or contradiction Gas Limitand Loops Timestamp Dependence Address hardcoded Revert/require functions **Exception Disorder** Use of tx.origin Using inline assembly Integer overflow/underflow Divide before multiply Dangerous strict equalities Missing Zero Address Validation Using SHA3 Compiler version not fixed Using throw



# **CLASSIFICATION OF RISK**

#### Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas OptimizationSuggestion

#### **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	0
<ul><li>Low-Risk</li></ul>	0
<ul><li>Gas Optimization</li><li>Suggestions</li></ul>	0



## **POINTS TO NOTE**

- The owner can renounce the ownership.
- The owner can transfer ownership.
- The owner can change the marketing wallet address.
- The owner can Include/exclude the address from fees.



## **STATIC ANALYSIS**

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

No major issues were found in the output



## MANUAL TESTING

### Centralization - Liquidity is added to

**EOA. Severity: Medium** 

function: \_addLiquidity

Status: Open

#### Overview:

Liquidity is added to EOA. It may be drained by the addLiquidityETH.

```
function _addLiquidity(uint256 tokenAmount, uint256 ethAmount)
private
lockTheSwap
{
    _approve(address(this), address(uniswapV2Router),
tokenAmount);

uniswapV2Router.addLiquidityETH{value: ethAmount}(
    address(this),
    tokenAmount,
    0,
    0,
    marketingWallet,
block.timestamp
);
}
```

#### **Suggestion:**

It is suggested that the address should be a contract address or a dead address.



## MANUAL TESTING

## Centralization - Missing

**Events Severity: Low** 

subject: Missing Events

Status: Open

#### Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function changeMarketingWallet(address newWallet)
public
onlyOwner
returns (bool)
marketingWallet = newWallet;
return true:
function change Tax For Liquidity And Marketing (uint 256
_taxBuyForLiquidity, uint256 _taxBuyForMarketing, uint256
_taxSellForLiquidity, uint256 _taxSellForMarketing)
public
onlyOwner
returns (bool)
require((_taxBuyForLiquidity+_taxBuyForMarketing) <= 20,
"ERC20: total tax must not be greater than 20");
require((_taxSellForLiquidity+_taxSellForMarketing) <= 20,
"ERC20: total tax must not be greater than 20");
taxBuyForLiquidity = _taxBuyForLiquidity;
taxBuyForMarketing = _taxBuyForMarketing;
```



## MANUAL TESTING

```
taxSellForLiquidity = _taxSellForLiquidity;
taxSellForMarketing = _taxSellForMarketing;
return true;
function changeMaxTxAmount(uint256 _maxTxAmount)
public
only Owner
returns (bool)
require(_maxTxAmount >= 100_000_000, "ERC20: maxTxAmount
must not be less than 0.1% total supply");
maxTxAmount = _maxTxAmount * 10**_decimals;
return true;
function changeMaxWalletAmount(uint256 _maxWalletAmount)
public
onlyOwner
returns (bool)
require(_maxWalletAmount >= 100_000_000, "ERC20:
maxWalletAmount must not be less than 0.1% total supply");
maxWalletAmount = _maxWalletAmount * 10**_decimals;
return true;
```



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