

Smart Contract Audit

FOR

Zeldalnu

DATED: 27 October 23'



AUDIT SUMMARY

Project name - Zeldalnu

Date: 27 October 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	0	0	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. 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/0x3BeADe8953289 D9932A418ff42c59185F3dBCe53



Token Information

Token Address:

0xadB6CB9550652739c08Cf890Fb135500a9a756a3

Name: Zeldalnu

Symbol: ZELDA

Decimals: 18

Network: Ethereum

Token Type: ERC20

Owner: 0x98C523f5bFfe44aA8b94A87A83c2721A1cb2DCbc

Deployer:

0x98C523f5bFfe44aA8b94A87A83c2721A1cb2DCbc

Token Supply: 420, 000, 000, 000, 000, 000

Checksum:

1666029b29a5f1ae543a23971ebc1e066fc0f1b5

Testnet version:

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TOKEN OVERVIEW

buy fee: 5%	
Sell fee: 12%	
tuonofou foo: E0/	
transfer fee: 5%	
Fee Privilege: Owner	
Ownership: Owned	
Minting: None	
Max Tx: No	
Blacklist: No	
Other Privileges:	

- Initial distribution of the tokens



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	0
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to change current fees (5% buys and
 12% sells)
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens
- Owner is not able to set maxTx and max wallet



STATIC ANALYSIS

```
INFO:Detectors:
Reentrancy in TokenDividend.manualSend() (contracts/Token.sol#507-514):
        External calls:
        - address(marketingFeeReceiver).transfer(address(this).balance) (contracts/Token.sol#508)
         _basicTransfer(address(this),marketingFeeReceiver,balanceOf(address(this))) (contracts/Token.sol#509-513)
                 - _balances[recipient] = _balances[recipient] + amount (contracts/Token.sol#413)
        Event emitted after the call(s):
                   _basicTransfer(address(this),marketingFeeReceiver,balanceOf(address(this))) (contracts/Token.sol#509-513)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-4
INFO:Detectors:
- _allowances[address(this)][address(router)] = 1000000000 * (10 ** 50) * 100 (contracts/Token.sol#157-160)
TokenDividend.setDistributorSettings(uint256) (contracts/Token.sol#533-536) uses literals with too many digits:
         - require(bool)(gas < 3000000) (contracts/Token.sol#534)</pre>
TokenDividend.setTXBNBgas(uint256) (contracts/Token.sol#538-541) uses literals with too many digits:
         - require(bool)(gas < 100000) (contracts/Token.sol#539)</pre>
TokenDividend.setDistribuitorBuyGas(uint256) (contracts/Token.sol#543-546) uses literals with too many digits:
         require(bool)(gas < 1000000) (contracts/Token.sol#549)</li>
TokenDividend.slitherConstructorVariables() (contracts/Token.sol#97-581) uses literals with too many digits:
         - distributorBuyGas = 400000 (contracts/Token.sol#132)
TokenDividend.slitherConstructorVariables() (contracts/Token.sol#97-581) uses literals with too many digits:
- LiquidifyGas = 500000 (contracts/Token.sol#133)
INFO:Detectors:
TokenDividend._symbol (contracts/Token.sol#104) should be constant
TokenDividend.burnFee (contracts/Token.sol#121) should be constant
TokenDividend.buyTax (contracts/Token.sol#114) should be constant
TokenDividend.feeDenominator (contracts/Token.sol#129) should be constant
TokenDividend.liquidityFee (contracts/Token.sol#118) should be constant
TokenDividend.marketingFee (contracts/Token.sol#119) should be constant
TokenDividend.router (contracts/Token.sol#100) should be constant
TokenDividend.sellBurnFee (contracts/Token.sol#127) should be constant
TokenDividend.sellLiquidityFee (contracts/Token.sol#124) should be constant
TokenDividend.sellMarketingFee (contracts/Token.sol#125) should be constant
TokenDividend.sellTax (contracts/Token.sol#115) should be constant
TokenDividend.WBNB (contracts/Token.sol#101) should be immutable
INFO:Slither:./contracts/Token.sol analyzed (6 contracts with 88 detectors), 70 result(s) found
```

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

No major issues were found in the output



CONTRACT ASSESMENT

```
| Contract | Type | Bases | | | | |
|<del>|------||-----||-------|</del>------|
| **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
IIIIII
| **IDEXFactory ** | Interface | | | |
| └ | createPair | External ! | ● | NO! |
HIIII
| **BEP20 ** | Interface | | | |
📙 | approve | External 🚦 | 🌑 | NO 📗
| └ | transferFrom | External ! | ● NO! | | | |
| **IDEXRouter** | Interface | |||
| - | factory | External | | | NO | |
| └ | addLiquidityETH | External ! | ■ NO! |
| - | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 111 | NO! |
| L | getAmountsOut | External ! | NO! |
111111
| **IDividendDistributor** | Interface | | | |
| └ | setDistributionCriteria | External ! | ● |NO! |
| └ | claimDividend | External ! | ● NO! |
| L | getUnpaidEarnings | External ! | NO! |
1111111
| **IDividendDistributorFactory** | Interface | | | |
| └ | createDistribuitor | External ! | ● NO! |
1111111
```



CONTRACT ASSESMENT

```
**TokenDividend** | Implementation | |||
| - | < Constructor > | Public ! | [1] | NO! | |
| - | < Receive Ether> | External ! | 1 NO! |
| LotalSupply | External | | NO! |
| - owner | Public | | NO ! |
| | decimals | External | | NO | |
| | getOwner | External | | NO | |
| - | allowance | External ! | |NO! |
| └ | transferFrom | External ! | ● NO! |
| └ | setPair | Public ! | ● | onlyOwner |
| └ | includeInFee | Public ! | ● | onlyOwner |
| L | isExcludedFromFee | Public ! | NO! |
| └ | shouldSwapBack | Internal 🔒 | | |
| | setmarketingFeeReceivers | External ! | | onlyOwner |
| | setbuytokensReceiver | External | | | onlyOwner |
| └ | LIQUIFYFEE | Internal 🔒 | | |
| └ | _transferFrom | Internal 🄒 | ● | |
| └ | _basicTransfer | Internal 🔒 | ● | |
| └ | _txTransfer | Internal 🔒 | ● | |
| - | getamount | Internal - | | |
| └ | swapBack | Internal 🔒 | ● | swapping |
```



CONTRACT ASSESMENT

```
| | manualSend | External | | | | onlyOwner |
| | setDistributionCriteria | External | | | | onlyOwner |
| - | claimDividend | External ! | • | NO ! |
| | getUnpaidEarnings | Public | | NO | |
| | setDistributorSettings | External ! | | onlyOwner |
| | setTXBNBgas | External ! | | onlyOwner |
| | setDistribuitorBuyGas | External | | | onlyOwner |
| | setLiquidifyGas | External ! | | onlyOwner |
renounceOwnership | Public ! | • onlyOwner |
| - | transferOwnership | Public ! | • | onlyOwner |
| - | _transferOwnership | Internal 🔒 | 🕌 | |
### Legend
| Symbol | Meaning |
|:-----|
| • | Function can modify state |
| III Function is payable |
```



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x59758d5a903e144ab53ac50d745eccf077e772b2e 55b217ddfd74a15699825f3

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

https://testnet.bscscan.com/tx/0x46646d452ee62faac20f3bd026b42e108921a1aa40 28fd53b034563022dd70c3

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

https://testnet.bscscan.com/tx/0xe11b99f63901df12b361650293d983d827cde21ae2 6f05939715dd3f298ac421

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

https://testnet.bscscan.com/tx/0x6ca9d3c66938b013341b8b51d77f7e832b99c18b16560c42a5beb56281e4c33d

5- Buying when not excluded from fees (tax 5%) (passed):

https://testnet.bscscan.com/tx/0xa42ceda036298a0c96ce7b930cefe8087541286de 5c78fa040e90335fe4db841

6- Selling when not excluded from fees (tax 0-12%) (passed):

https://testnet.bscscan.com/tx/0x357eb59930ef3589f006b77a02ac1e2f8a3014dfdc464cdd2ded9af5cb6a7ba4

7- Transferring when not excluded from fees (5 % tax) (passed):

https://testnet.bscscan.com/tx/0x2b39b55999a0223d3f5edd3ff4977116f7e116e05bd3827b02caccb57a8bbcb0

7- Internal swap (Auto-liquidity + Marketing fee + reflections) (passed):

https://testnet.bscscan.com/tx/0x357eb59930ef3589f006b77a02ac1e2f8a3014dfdc464cdd2ded9af5cb6a7ba4



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