



Smart Contract Audit

FOR
ZENF

DATED : 28 FEB 23'



AUDIT SUMMARY

Project name – ZENF

Date: 28 February, 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 done on BSC Test network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/token/0x555294564BC7E438718ee9978d0828D3C50131d0>



Token Information

Token Name : ZENF Token

Token Symbol: ZENF

Decimals: 18

Token Supply: 200,000,000

Token Address:

0xE9b7B5D5e8d2BCC78884F9F9099bfA42A9e5c1A5

Checksum:

292b3acaf570123d6edaa5f4c23b941d87084386

Owner: Not owned



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: None

Ownership : No Owners

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: None



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.
 - 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 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

- | | |
|------------------------------------|-------------------------------|
| ✓ Return values of low-level calls | ✓ Gasless Send |
| ✓ 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

Description

◆ Critical

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

◆ High-Risk

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

◆ Medium-Risk

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

◆ Low-Risk

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

◆ Gas Optimization /Suggestion

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

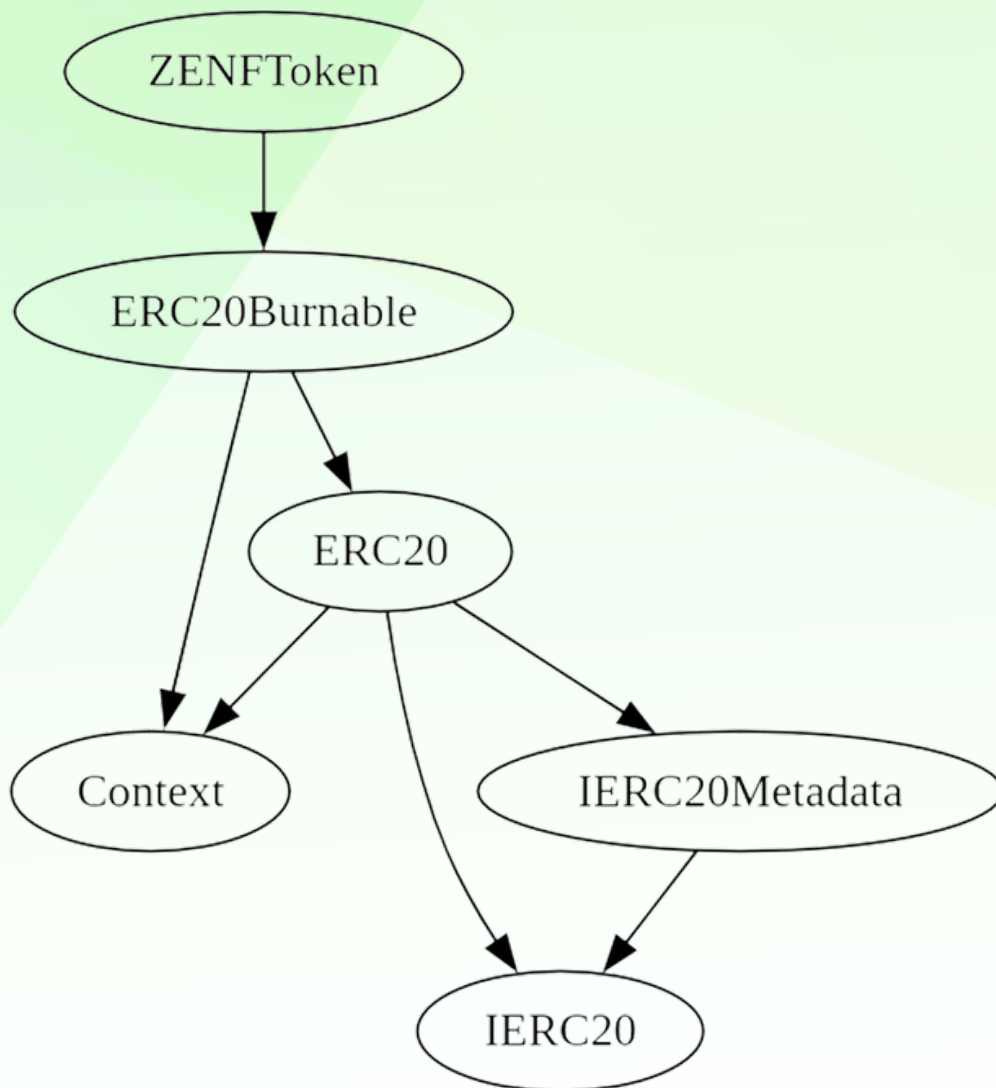
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE





POINTS TO NOTE

- **Owner is not able to set buy/sell/transfer taxes (0% static)**
 - **Owner is not able to blacklist an arbitrary wallet**
 - **Owner is not able to set max buy/sell/transfer amounts**
 - **Owner is not able to disable trades**
 - **Owner is not able to mint new tokens**
-











CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
ZENFToken Implementation ERC20Burnable					
└	<Constructor>	Public !	ERC20		
ERC20Burnable Implementation Context, ERC20					
└	burn	Public !	NO !		
└	burnFrom	Public !	NO !		
ERC20 Implementation Context, IERC20, IERC20Metadata					
└	<Constructor>	Public !	NO !		
└	name	Public !	NO !		
└	symbol	Public !	NO !		
└	decimals	Public !	NO !		
└	totalSupply	Public !	NO !		
└	balanceOf	Public !	NO !		
└	transfer	Public !	NO !		
└	allowance	Public !	NO !		
└	approve	Public !	NO !		
└	transferFrom	Public !	NO !		
└	increaseAllowance	Public !	NO !		
└	decreaseAllowance	Public !	NO !		
└	_transfer	Internal			
└	_mint	Internal			
└	_burn	Internal			
└	_approve	Internal			
└	_spendAllowance	Internal			
└	_beforeTokenTransfer	Internal			
└	_afterTokenTransfer	Internal			
IERC20 Interface					
└	totalSupply	External !	NO !		
└	balanceOf	External !	NO !		
└	transfer	External !	NO !		
└	allowance	External !	NO !		
└	approve	External !	NO !		
└	transferFrom	External !	NO !		
IERC20Metadata Interface IERC20					
└	name	External !	NO !		



CONTRACT ASSESMENT

^L	symbol	External 		NO 
^L	decimals	External 		NO 
****Context****	Implementation			
^L	_msgSender	Internal 		
^L	_msgData	Internal 		

Symbol	Meaning
	Function can modify state
	Function is payable



STATIC ANALYSIS

```
Pragma version^0.8.17 (contracts/Token.sol#5) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16  
solc-0.8.18 is not recommended for deployment  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity  
contracts/Token.sol analyzed 15 contracts with 81 detectors and 3 errors/4 warnings found
```

**Result => A static analysis of contract's source code has been
performed using slither,
No major issues were found in the output**



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding Liquidity (**Passed**):

liquidity added on Pancakeswap V2:

<https://testnet.bscscan.com/tx/0x7577d9d495e054e2b8a436144784402d3cf49356fb88081a3a0ce7d6c9b3c7b0>

no issue were found on adding liquidity.

2- Buying (0% Tax) (**Passed**):

<https://testnet.bscscan.com/tx/0xb0c259efc4db2814c155450b9b2cc4a8928adb51a99c9d6645fde36bd52bc9b7>

3- Selling (0% Tax) (**Passed**):

<https://testnet.bscscan.com/tx/0x9969e52cbacf7a15069899de00d168920f317f2baf0784059ecd70b1d771f060>

4-Transferring (0% tax)(**Passed**):

<https://testnet.bscscan.com/tx/0xdbf57d315a722a883b6d6cc3efbc3ec3dfb72a098657fd923f8ec264255e8964>

5-Burning (0% tax)(**Passed**):

<https://testnet.bscscan.com/tx/0xfe0a4cef61a2d476a45a643e192560220d4b3a12f121d201190d5a702e0824ca>



MANUAL TESTING

NO ISSUES FOUND

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