



Smart Contract Audit

FOR

BIT AI

DATED : 23 FEB 23'



AUDIT SUMMARY

Project name – BIT AI

Date: 23 February, 2023

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

Audit Status: Passed (Contract is developed by pinksale's Safu Dev)

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/address/0x44D29D3ACc562F6aF7e8D9c3A5ebd47929Ad800e>



Token Information

Token Name : BIT AI

Token Symbol: BIT AI

Decimals: 18

Token Supply: 5,000,000

Token Address: NOT PROVIDED

Checksum:

74177de48233db46f7f3e68edb93dfde042b91b7

Owner: NOT PROVIDED



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: Owner

Ownership : Owned

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

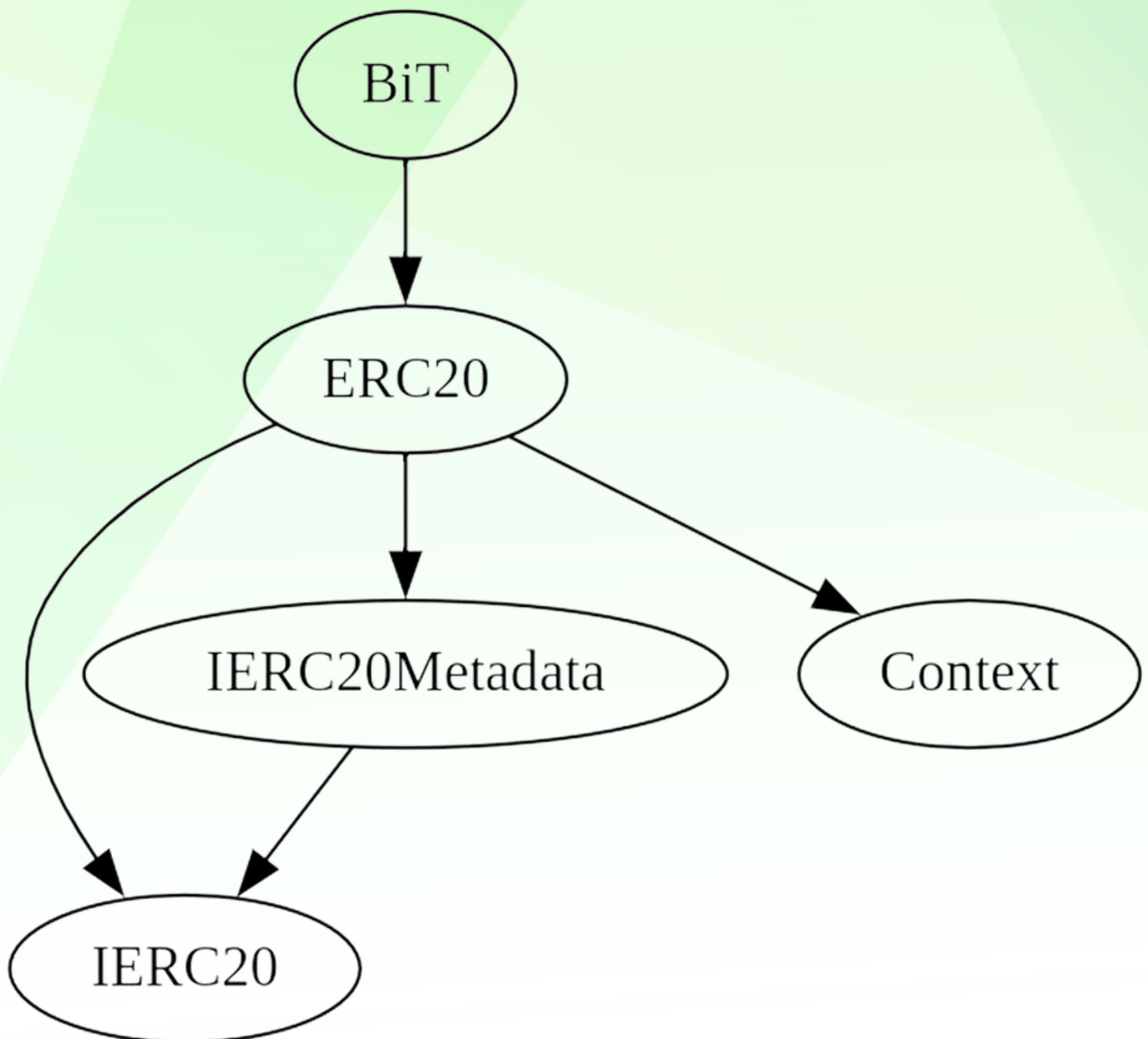
◆ Low-Risk

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**	
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	!
└	symbol	External	!	NO	!
└	decimals	External	!	NO	!
Context Implementation					
└	_msgSender	Internal	🔒		
└	_msgData	Internal	🔒		
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	🔒		
└	_beforeTokenTransfer	Internal	🔒		
└	_afterTokenTransfer	Internal	🔒		
BIT Implementation ERC20					




CONTRACT ASSESMENT

| ^L | <Constructor> | Public  |  | ERC20 |

| Symbol | Meaning |

|:-----:|-----|

|  | Function can modify state |

|  | Function is payable |



STATIC ANALYSIS

```
Context._msgData() (contracts/Token.sol#46-49) is never used and should be removed
ERC20._burn(address,uint256) (contracts/Token.sol#168-183) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#17) 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

Redundant expression "this (contracts/Token.sol#47)" inContext (contracts/Token.sol#41-50)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
```

**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/0x478063cef038e2039d4d0a396c2f8c1bb065a5f8997da6a3e4ea9f9b45c71a93>

no issue were found on adding liquidity.

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

<https://testnet.bscscan.com/tx/0xb3dbabc8d8787cc73801c2e50e39a3aa71f06fdedec3568730e33ec4ae2da5df>

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

<https://testnet.bscscan.com/tx/0x16566dcdf2e22b4dd650dff4634dfeeeec5de061095c89b685c4b98c2ccd9e44>

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

<https://testnet.bscscan.com/tx/0x8b4a03e077be1ad1e49ac565bdb394e755c00bfbfe65bc01a5d0f9b30a10685b>



MANUAL TESTING

NO ISSUES FOUND

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