



Smart Contract Audit

FOR
BOB

DATED : 24 MAY 23'



AUDIT SUMMARY

Project name – BOB

Date: 24 May, 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: The code has undergone a line-by-line review by the **Ace** team.

2. ETH Test Network: All tests were conducted on the ETH 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/0x8824E512023dF5552aC7E6D8C5cE9C80722AF4e0>



Token Information

Name : BOB Coin

Symbol : BOB

Decimals: 18

Network: BSC

Token Type: BEP20

Token Address:

0x547a9DcA1f033bB6c78EF1Bd5CD3574E546cf2D9

Owner:

0xF09a4A4947775Ec20a2D2019F9D623E6aA4E9CF2
(at time of writing the audit)

Deployer: 0xF09a4A4947775Ec20a2D2019F9D623E6
aA4E9CF2



Token Information

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilige: No fees

Ownership :

0xF09a4A4947775Ec20a2D2019F9D623E6aA4E9CF2

Minting: None

Max Tx Amount/ Max Wallet Amount: 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-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 |
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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.

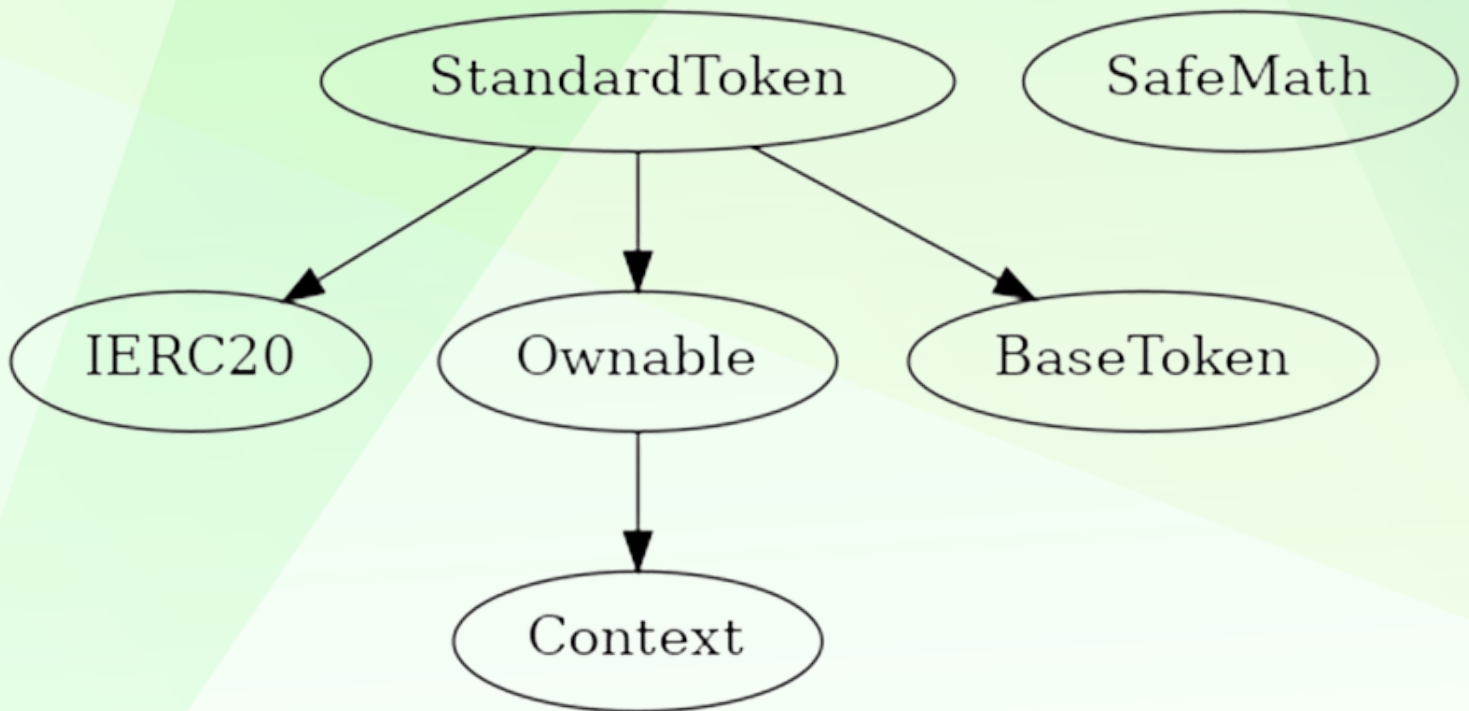
Findings

Severity

Found

◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	0

INHERITANCE TREE





POINTS TO NOTE

- Fees are 0 (static)
 - Owner is not able to blacklist an arbitrary address.
 - Owner is not able to disable trades
 - Owner is not able to limit buy/sell/transfer/wallet amounts
 - Owner is not able to mint new tokens
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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	!
Context Implementation					
└	_msgSender	Internal	🔒		
└	_msgData	Internal	🔒		
Ownable Implementation Context					
└	<Constructor>	Public	!	NO	!
└	owner	Public	!	NO	!
└	renounceOwnership	Public	!	onlyOwner	
└	transferOwnership	Public	!	onlyOwner	
└	_setOwner	Private	🔒		
SafeMath Library					
└	tryAdd	Internal	🔒		
└	trySub	Internal	🔒		
└	tryMul	Internal	🔒		
└	tryDiv	Internal	🔒		
└	tryMod	Internal	🔒		
└	add	Internal	🔒		
└	sub	Internal	🔒		
└	mul	Internal	🔒		
└	div	Internal	🔒		
└	mod	Internal	🔒		
└	sub	Internal	🔒		
└	div	Internal	🔒		
└	mod	Internal	🔒		
BaseToken Implementation					
StandardToken Implementation IERC20, Ownable, BaseToken					
└	<Constructor>	Public	!	NO	!
└	name	Public	!	NO	!



CONTRACT ASSESMENT

	└		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	🔒		●			
	└		_setupDecimals		Internal	🔒		●			
	└		_beforeTokenTransfer		Internal	🔒		●			

Legend

	Symbol		Meaning	
	:-----:		-----	
	●		Function can modify state	
	💰		Function is payable	

STATIC ANALYSIS

```
StandardToken.allowance(address,address).owner (contracts/Token.sol#571) shadows:  
  - Ownable.owner() (contracts/Token.sol#159-161) (function)  
StandardToken._approve(address,address,uint256).owner (contracts/Token.sol#765) shadows:  
  - Ownable.owner() (contracts/Token.sol#159-161) (function)  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing  
  
Context._msgData() (contracts/Token.sol#118-120) is never used and should be removed  
SafeMath.div(uint256,uint256) (contracts/Token.sol#349-351) is never used and should be removed  
SafeMath.div(uint256,uint256,string) (contracts/Token.sol#405-414) is never used and should be removed  
SafeMath.mod(uint256,uint256) (contracts/Token.sol#365-367) is never used and should be removed  
SafeMath.mod(uint256,uint256,string) (contracts/Token.sol#431-440) is never used and should be removed  
SafeMath.mul(uint256,uint256) (contracts/Token.sol#335-337) is never used and should be removed  
SafeMath.sub(uint256,uint256) (contracts/Token.sol#321-323) is never used and should be removed  
SafeMath.tryAdd(uint256,uint256) (contracts/Token.sol#221-230) is never used and should be removed  
SafeMath.tryDiv(uint256,uint256) (contracts/Token.sol#272-280) is never used and should be removed  
SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#287-295) is never used and should be removed  
SafeMath.tryMul(uint256,uint256) (contracts/Token.sol#252-265) is never used and should be removed  
SafeMath.trySub(uint256,uint256) (contracts/Token.sol#237-245) is never used and should be removed  
StandardToken._burn(address,uint256) (contracts/Token.sol#737-749) is never used and should be removed  
StandardToken._setupDecimals(uint8) (contracts/Token.sol#783-785) 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#469) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16  
solc-0.8.19 is not recommended for deployment  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity  
  
Variable StandardToken._totalSupply (contracts/Token.sol#487) is too similar to StandardToken.constructor(string,string,uint8,uint256).totalSupply_ (contracts/Token.sol#493)  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar  
  
StandardToken._name (contracts/Token.sol#484) should be immutable  
StandardToken._symbol (contracts/Token.sol#485) should be immutable  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable  
(contracts/Token.sol analyzed (6 contracts with 84 detectors) - 23 results found)
```

Static Analysis

an static analysis of the code were performed using
slither. No issues were found



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x9046f0b7e21e74da6b912dd623c38bffe306cb8e41766096e22a04634cc299e8>

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

<https://testnet.bscscan.com/tx/0x55b3f0d12b8fbf1343a0d7ff5bf814f07775fa7dc0e707d41288d96b597018c1>

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

<https://testnet.bscscan.com/tx/0xa4deeb56d188f1f64bd707463ff50086485875419906f75226d1fe708612b265>

4- Transferring 0% tax) (passed):

<https://testnet.bscscan.com/tx/0xf5862772bb94f5a05ca2749faa4fd2e1e69db35f9b3b47d20027ac4e95c6f287>



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