



Smart Contract Audit

FOR
JOEY OGGY

DATED : 9 May 23'



AUDIT SUMMARY

Project name – JOEY OGGY

Date: 9 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:

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/0xd7d6316E316987eAc1B7a0FC3eB25b9f1a7A5437>



Token Information

Token Name : JOEY OGGY

Token Symbol: JOEY

Decimals: 9

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

Token Address:

0x753979f1b0F6b26A6B0F9409492c0CC8099ed97e

Checksum:

035da10987d6b003b2ba595b9eeba594a03fc652

Owner:

0x97b0aA30AeDCa959C394A62Ac970Be168AF3Da04
(at time of writing the audit)

Deployer:

0x97b0aA30AeDCa959C394A62Ac970Be168AF3Da04



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: no

Ownership: no

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: 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.
 - 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

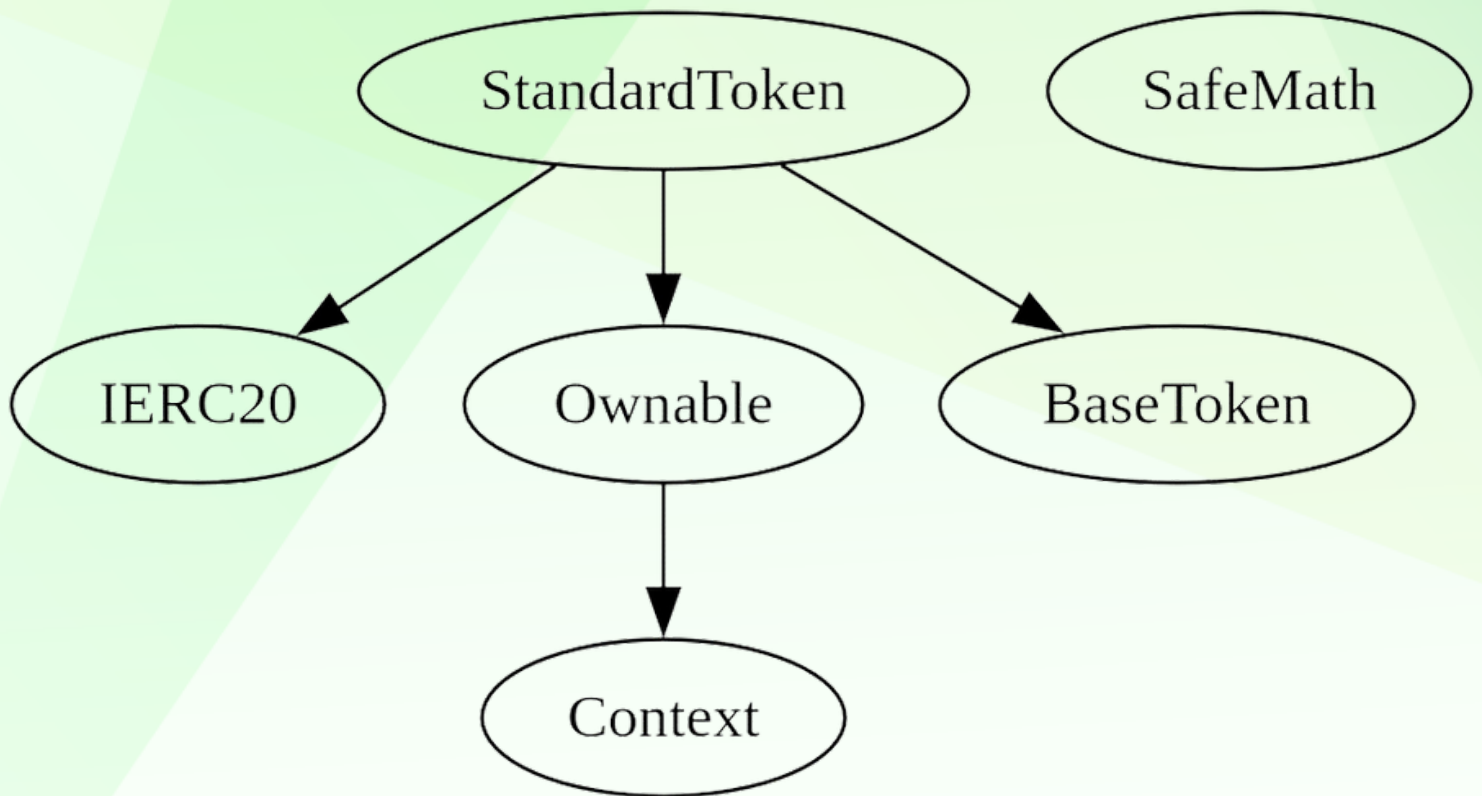
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE





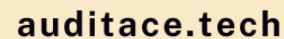
POINTS TO NOTE

- **Owner is not able to set buy/sell/transfer taxes (0% all)**
 - **Owner is not able to set a max buy/transfer/wallet/sell amount**
 - **Owner is able to blacklist an arbitrary wallet**
 - **Owner is 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	!
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	!
└	symbol	Public	!	NO	!



L	decimals	Public	!		NO	!	
L	totalSupply	Public	!		NO	!	
L	balanceOf	Public	!		NO	!	
L	transfer	Public	!	●	NO	!	
L	allowance	Public	!		NO	!	
L	approve	Public	!	●	NO	!	
L	transferFrom	Public	!	●	NO	!	
L	increaseAllowance	Public	!	●	NO	!	
L	decreaseAllowance	Public	!	●	NO	!	
L	_transfer	Internal	🔒	●			
L	_mint	Internal	🔒	●			
L	_burn	Internal	🔒	●			
L	_approve	Internal	🔒	●			
L	_setupDecimals	Internal	🔒	●			
L	beforeTokenTransfer	Internal	🔒	●			

Symbol	Meaning
⬢	Function can modify state
💰	Function is payable



STATIC ANALYSIS

```
Contract locking ether found:
  Contract StandardToken (contracts/Token.sol#472-801) has payable functions:
    - StandardToken.constructor(string,string,uint8,uint256) (contracts/Token.sol#485-497)
    But does not have a function to withdraw the ether
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#contracts-that-lock-ether

StandardToken.allowance(address,address).owner (contracts/Token.sol#567) shadows:
  - Ownable.owner() (contracts/Token.sol#157-159) (function)
StandardToken._approve(address,address,uint256).owner (contracts/Token.sol#760) shadows:
  - Ownable.owner() (contracts/Token.sol#157-159) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

Context._msgData() (contracts/Token.sol#116-118) is never used and should be removed
SafeMath.div(uint256,uint256) (contracts/Token.sol#347-349) is never used and should be removed
SafeMath.div(uint256,uint256,string) (contracts/Token.sol#403-412) is never used and should be removed
SafeMath.mod(uint256,uint256) (contracts/Token.sol#363-365) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (contracts/Token.sol#429-438) is never used and should be removed
SafeMath.mul(uint256,uint256) (contracts/Token.sol#333-335) is never used and should be removed
SafeMath.sub(uint256,uint256) (contracts/Token.sol#319-321) is never used and should be removed
SafeMath.tryAdd(uint256,uint256) (contracts/Token.sol#219-228) is never used and should be removed
SafeMath.tryDiv(uint256,uint256) (contracts/Token.sol#270-278) is never used and should be removed
SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#285-293) is never used and should be removed
SafeMath.tryMul(uint256,uint256) (contracts/Token.sol#250-263) is never used and should be removed
SafeMath.trySub(uint256,uint256) (contracts/Token.sol#235-243) is never used and should be removed
StandardToken._burn(address,uint256) (contracts/Token.sol#733-744) is never used and should be removed
StandardToken._setupDecimals(uint8) (contracts/Token.sol#778-780) 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#9) 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#483) is too similar to StandardToken.constructor(string,string,uint8,uint256).totalSupply_ (contracts/Token.sol#489)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

StandardToken._name (contracts/Token.sol#480) should be immutable
StandardToken._symbol (contracts/Token.sol#481) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

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

No major issues were found in the output



FUNCTIONAL TESTING

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x632a972d7053c155c56cac5133760d88b402453f1e3c81a93a95640d34447100>

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

<https://testnet.bscscan.com/tx/0x2af3952665b84a47b1b60f3717c82c09618c72b21d5fa04bc3c7e4cfe6bbf380>

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

<https://testnet.bscscan.com/tx/0x7e877ec064f99c8e90f1f580ec825ee0c4f1de87b6e1b4649fd71fdb224525ea>

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

<https://testnet.bscscan.com/tx/0x96247a933f18da8a35623c237baa081c4fbd793cb73ded7f2fb1028ea31e8814>

5- Buying when not excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x79d4ddd3f57bb4f12257ce8f59ad0670ef7305d1ab9057cfd6830ae19814a59f>

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

<https://testnet.bscscan.com/tx/0xce21383c091dd4d316637f8f68a18387af18047b0ffc9925dd898b374f3af466>



FUNCTIONAL TESTING

7- Transferring when not excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xd4704f6c23d412beb1c828f6a348cb45e0081e880bbe815d5ab4daaba63eefdf>



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