

# Smart Contract Audit

**FOR** 

# Core Al

**DATED: 04 FEB 23'** 



## **AUDIT SUMMARY**

Project name - Core Al

Date: 04 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/0x0e67f3B84c18 75D2991083CA8cBE86EaD89dD944



## **Token Information**

Token Name: Core Al

Token Symbol: Core Al

Decimals: 18

Token Supply: 100,000,000

#### Token Address:

0x4BD0cf33AA7C6F75Fb4b70438656FFABa2E5986c

#### Checksum:

f0e4c2f76c58916ec258f246851bea091d14d4247a2f c3e18694461b1816e13b

#### Owner:

0x68014a2adC8B950548faDaeD325C5EC88F39e4e5

#### Deployer:

0x68014a2adC8B950548faDaeD325C5EC88F39e4e5



## **TOKEN OVERVIEW**

Fees:

Buy Fees: 3%

Sell Fees: 3%

Transfer Fees: 0%

Fees Privilige: None

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: 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-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.

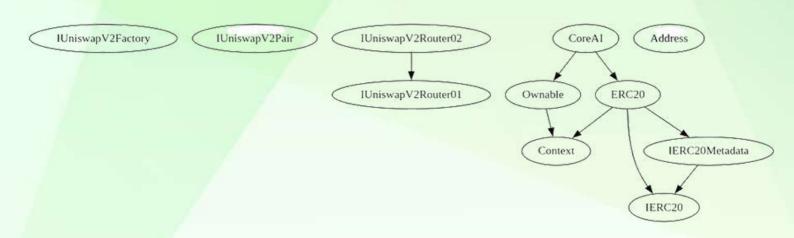
A vulnerability that has an informational character but is not affecting any of the code.

## **Findings**

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	0



## **INHERITANCE TREE**





## **POINTS TO NOTE**

- Owner is not able to set buy/sell taxes over 3% (0% transfer tax)
- 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 |
                Type
                              Bases
<mark>|;-----:|;|;-----:|</mark>:|;-----:|
       | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
\Pi\Pi\Pi\Pi\Pi
**IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | |
| | | feeToSetter | External | | | NO
| | getPair | External | | NO | | | |
| | allPairs | External | | NO | |
| L | allPairsLength | External | | NO | |
| L | createPair | External | | | | NO | |
📙 | setFeeTo | External 📗 | 🛑 | NO 📗
| L | setFeeToSetter | External | | ( NO | | |
| **IUniswapV2Pair** | Interface | |||
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transfer | External | | | NO | |
| L | transferFrom | External | | | NO | |
| L | DOMAIN SEPARATOR | External | | NO | |
| L | PERMIT_TYPEHASH | External | | | NO | |
| L | nonces | External | | NO |
| L | permit | External | | | NO | |
| L | MINIMUM LIQUIDITY | External | | | NO | |
| L | factory | External | | NO | |
| L | token0 | External | | NO | |
| L | token1 | External | | NO | |
| L | getReserves | External | | | NO | |
| L | price0CumulativeLast | External | | NO | |
| L | price1CumulativeLast | External | | NO | |
| L | kLast | External | | | NO | |
| L | mint | External | | | NO | |
| L | burn | External | | | NO | |
| L | swap | External | | | NO | |
| L | skim | External | | | NO | |
| L | sync | External | | | NO | |
| L | initialize | External | | | NO | |
```



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**IUniswapV2Router01** | Interface | |||
| L | factory | External | | NO | | | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | NO | |
| | removeLiquidity | External | | | NO | |
| | removeLiquidityETH | External | | | NO | |
| | removeLiquidityWithPermit | External | | | | NO | |
| | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | ( NO | |
📙 | swapTokensForExactTokens | External 📗 | 🛑 | NO 📗
| L | swapExactETHForTokens | External | | 🔟 | NO | |
| L | swapTokensForExactETH | External | | | NO | |
| L | swapExactTokensForETH | External | | | NO | |
| L | swapETHForExactTokens | External | | I NO | |
| L | quote | External | | | NO | |
| L | getAmountOut | External L | NOL |
| L | getAmountIn | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
\mathbf{H}
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
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| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
IIIIIII
| **IERC20Metadata** | Interface | IERC20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
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```



```
| **Address** | Library | ||| | | |
| L | sendValue | Internal 🦲 | 🧓 | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🦲 | 🦲 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| | | functionStaticCall | Internal | | | | |
| | | functionStaticCall | Internal | | | | |
| L | functionDelegateCall | Internal 🦲 | 🛑 | |
| L | functionDelegateCall | Internal 🦰 | 🛑 | |
L | verifyCallResultFromTarget | Internal 🦰 | | |
| L | verifyCallResult | Internal 🦰 | | |
| L | revert | Private 🦳 | | |
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| **Context** | Implementation | |||
| L | _msgSender | Internal 🦰 | | |
| L | _msgData | Internal 🦲 | | |
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| **Ownable** | Implementation | Context | | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | ( ) | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
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| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | name | Public | | NO | |
| L | 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 | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
| L | _afterTokenTransfer | Internal 🦰 | 🛑 | |
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**CoreAI** | Implementation | ERC20, Ownable | | |
| L | <Receive Ether> | External | | I I INO | | | |
| L | claimStuckTokens | External | | | | onlyOwner |
| | excludeFromFees | External | | | onlyOwner |
| L | setMarketingFeeOnBuy | External | | | | onlyOwner |
| L | setMarketingFeeOnSell | External | | ( ) | onlyOwner |
| | | isExcludedFromFees | Public | | | NO | |
| L | changeMarketingWallet | External | | 🛑 | onlyOwner |
| L | enableTrading | External | | | | onlyOwner |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | setSwapEnabled | External | | | | onlyOwner |
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | swapAndSendMarketing | Private 🦳 | 🌘 | |
| Symbol | Meaning |
|:-----|
 | Function can modify state |
| I Function is payable |
```



## **STATIC ANALYSIS**

```
Address, revert(bytes, string) (contracts/festToken.sol#379-548) is never used and should be removed Address, functional liaddress, bytes, string) (contracts/festToken.sol#379-548) is never used and should be removed Address, functional liaddress, bytes, string) (contracts/festToken.sol#379-521) is never used and should be removed Address, functional liaddress, bytes, string) (contracts/festToken.sol#379-443) is never used and should be removed Address, functional liaddress, bytes) (contracts/festToken.sol#379-443) is never used and should be removed Address, functional liaddress, bytes) (contracts/festToken.sol#379-443) is never used and should be removed Address, string (contracts/festToken.sol#379-343) is never used and should be removed Address, string (contracts/festToken.sol#379-343) is never used and should be removed Address, string (contracts/festToken.sol#379-339) is never used and should be removed Address, string (contracts/festToken.sol#379-339) is never used and should be removed Address, string (contracts/festToken.sol#379-339) is never used and should be removed Address, string (contracts/festToken.sol#379-339) is never used and should be removed Address, string (contracts/festToken.sol#379-339) is never used and should be removed Address, verify(alleasulfroatraget(address, bool.pytes, string) (contracts/festToken.sol#379-339) is never used and should be removed Address, verify(alleasulfroatraget(address, bool.pytes, string) (contracts/festToken.sol#379-339) is never used and should be removed Address, verify(alleasulfroatraget(address, bool.pytes, string) (contracts/festToken.sol#399-339) is never used and should be removed Address, verify(alleasulfroatraget(address, bool.pytes, string) (contracts/festToken.sol#399-339) is never used and should be removed Address. verify(alleasulfroatraget(address, bool.pytes, string) (contracts/festToken.sol#399-339) is never used and should be removed Address. verify(alleasulfroatraget(address, bool.pytes, string) (contracts/festToken.sol#399-339) is never us
```

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/0x7206b2afd29b0ce1adb72410d20 535ac79aa2bd1fb13bd72661ba0f33d21cb3b

no issue were found on adding liquidity.

2- Buying (3% max tax)(Passed):

https://testnet.bscscan.com/tx/0x362ce662557a8113add9acd204 5f2f9f89b37b24e4d813176e887703f1c92393

3- Selling (3% max tax)(Passed):

https://testnet.bscscan.com/tx/0xdf1003223c0ba319052a10b874f d6927e61ebb4ad1a61574beb60d923ba84cfc

4) Tax swaps - marketing wallet received BNB (Passed):

<u>https://testnet.bscscan.com/address/0x275e3179d61d47d6a85c5</u> <u>21e7d40f4e35e936460#internaltx</u>



## **MANUAL TESTING**

#### **NO ISSUES FOUND**



# Social Media Overview

# Here are the Social Media Accounts of Core Al



https://t.me/CoreAI\_Channel



https://twitter.com/CoreAl\_BSC



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