

Smart Contract Audit

FOR

SCEO

DATED: 21 April 23'



AUDIT SUMMARY

Project name - ScoobyCEO

Date: 21 April, 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	1
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/0x19f930133019f75e7043adadf50097c0aaded72a



Token Information

Token Name: ScoobyCEO

Token Symbol: SCEO

Decimals: 9

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

Token Address:

0x2dD708CD12d8C0901774e20F1Cf9608857fD5eA4

Checksum:

3f6c6937f966fec20f5d2162988372cefad97c9c

Owner:

0x0670fd9192e2B4De7E971A28B9Bb016A14cf4ef6 (at time of writing the audit)

Deployer:

0x30a8ff0dEcabaB561BA358bdFf064A77C3d542f1



TOKEN OVERVIEW

Fees:

Buy Fees: up to 12%

Sell Fees: up to 12%

Transfer Fees: 0%

Fees Privilege: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: Yes

Other Privileges: excluding from fees - including in

fees - changing fees



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.

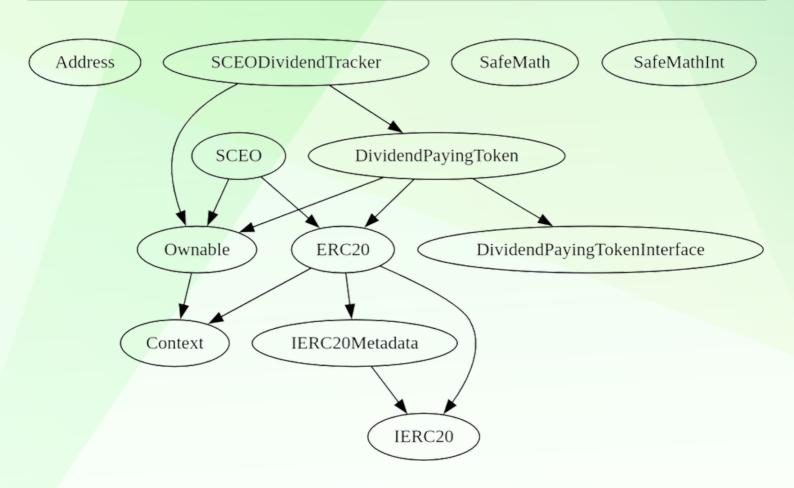
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
Gas Optimization /Suggestions	1



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set buy/sell fees higher than 12%
- Owner is not able to set max buy/sell/transfer/hold amount
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens
- Owner must enable trading for investors in order to be able to trade



```
Contract |
            Type
                       Bases
      **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| **Address** | Library | |||
 └ | sendValue | Internal 🔒 | 🛑 | |
**SCEO** | Implementation | ERC20, Ownable ||
 └ | updateDividendTracker | Public ! | ● | onlyOwner |
 processDividendTracker | External | | NO | |
 updateBuyTaxes | Public | onlyOwner |
 L | claimRewards | External | | | NO |
 L | excludeMultipleAccountsFromFees | Public | | • | onlyOwner |
 L | excludeFromDividends | External | | | onlyOwner |
 L | setMarketingWallet | External | | | onlyOwner |
 L | setSwapEnabled | External | | • | onlyOwner |
 L | EnableTrading | External | | | onlyOwner |
 L | setAntiBotBlocks | External | | • | onlyOwner |
 L | setMinBalanceForDividends | External | | • | onlyOwner |
 └ | setAutomatedMarketMakerPair | Private 🔐 | ● | |
 | setGasForProcessing | External | onlyOwner |
 L | setClaimWait | External | | • | onlyOwner |
 L | getClaimWait | External | | NO | |
 L | getTotalDividendsDistributed | External | | NO | |
 L | isExcludedFromFees | Public | | NO | |
 | withdrawableDividendOf | Public | NO | |
 L | getCurrentRewardToken | External | | NO | |
 L | dividendTokenBalanceOf | Public | | NO | |
L | getAccountDividendsInfo | External | | NO |
 L | getAccountDividendsInfoAtIndex | External | | NO | |
 L | getLastProcessedIndex | External | | NO | |
 L | getNumberOfDividendTokenHolders | External | | NO | |
 L | transfer | Internal 🔒 | 🛑 | |
 L | swapAndLiquify | Private | | | | | | |
 └ | swapTokensForBNB | Private 🔐 | ● | |
```



```
**SCEODividendTracker* | Implementation | Ownable, DividendPayingToken |
 L | transfer | Internal
 L | setMinBalanceForDividends | External | | | onlyOwner |
 | excludeFromDividends | External | | | | onlyOwner |
 | updateClaimWait | External | | | onlyOwner |
 | getLastProcessedIndex | External | NO | |
 | getNumberOfTokenHolders | External | NO | |
 | getCurrentRewardToken | External | NO | |
 L | getAccount | Public | | NO | |
L | getAccountAtIndex | Public | | NO | |
 └ | canAutoClaim | Private 🔐 | | |
 L | process | Public | | NO | |
 L | processAccount | Public | | | onlyOwner |
**DividendPayingToken** | Implementation | ERC20, DividendPayingTokenInterface, Ownable |||
 L | < Receive Ether > | External | | INO | |
 L | distributeDividends | Public | | INO | |
 └ | withdrawDividendOfUser | Internal 🔒 | ● ||
 | setRewardToken | External | | | onlyOwner |
 └ | swapBnbForCustomToken | Internal 🔒 | ● | |
 L | dividendOf | Public | | NO | |
 L | withdrawableDividendOf | Public | | NO | |
 | withdrawnDividendOf | Public | NO | |
 L | accumulativeDividendOf | Public | | NO | |
 └ | transfer | Internal 🔒 | ● ||
 L | tokengeneration | Internal | | | |
 L | burn | Internal | | | |
 └ | setBalance | Internal 🔒 | 🛑 | |
**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 | |
```



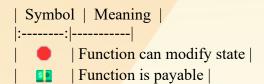
```
L | transferFrom | Public | | NO | |
 L | increaseAllowance | Public | | | NO | |
 | decreaseAllowance | Public | NO | |
 L | transfer | Internal 🔒 | 🛑 | |
 L | tokengeneration | Internal 🔒 | 🛑 | |
 L | burn | Internal 🔒 | 🛑 | |
 L | approve | Internal | | | | |
 └ | before Token Transfer | Internal 🔒 | ● | |
| **IERC20** | Interface | |||
 L totalSupply | External | NO | |
 balanceOf | External | | NO | |
 L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
 L | approve | External | | NO | |
 L | transferFrom | External | | | NO | |
| | **IERC20Metadata** | Interface | IERC20 |||
 L | name | External | | NO | |
 L | symbol | External | | NO | |
 L | decimals | External | | NO | |
| **Context** | Implementation | |||
| L | msgSender | Internal 🔒 | | |
L | msgData | Internal 🔒 | ||
| **SafeMath** | Library | ||
 L | add | Internal 🔒 | | |
 └ | sub | Internal 🔒 | | |
 L | mul | Internal 🔒 | ||
 L | div | Internal 🔒 | | |
 L | div | Internal 🔒 | | |
 └ | mod | Internal 🔒 | ||
| **SafeMathInt** | Library | |||
 L | mul | Internal 🔒 | ||
 └ | sub | Internal 🔒 | | |
 └ | add | Internal 🔒 | ||
 L | abs | Internal | | | |
 L | toUint256Safe | Internal 🔒 | | |
```



```
**SafeMathUint** | Library | ||
| L | toInt256Safe | Internal 🔒 | | |
**DividendPayingTokenInterface** | Interface | |||
| L | dividendOf | External | | NO | |
 | distributeDividends | External | | 10 | NO | |
| | withdrawableDividendOf | External | | NO | |
 | withdrawnDividendOf | External | NO | |
| L | accumulativeDividendOf | External | | NO | |
**Ownable** | Implementation | Context ||
L | owner | Public | | NO | |
 | L | transferOwnership | Public | | | | onlyOwner |
| **IPair** | Interface | |||
| L|sync|External | | 🌑 |NO | |
| **IFactory** | Interface | |||
| L | createPair | External | | | NO | |
L | getPair | External | | NO | |
**IRouter** | Interface | |||
 L | factory | External | | | NO | |
 L | WETH | External | | NO | |
L | addLiquidityETH | External | | SD | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
| L | swapExactETHForTokens | External | | 1 NO | |
 | **IterableMapping** | Library | |||
| L | get | Internal 🔒 | | |
 L | getKeyAtIndex | Internal 🔒 | | |
 └ | set | Internal 🔒 | 🛑 | |
```



Legend





TOKEN DISTRIBUTION

It should be noted that the owner currently holds 100% of the total supply. However, information about the distribution of these tokens is not available, and it is recommended that investors exercise caution when considering this aspect.



STATIC ANALYSIS

```
Low Level, call in Discinently paying low, within and bridge discinent in Contracts (Discinently paying low, no. 1687-115);

- (success) = user_call(gas: 3000, value: with framable bit viden(d)) (contracts/Discinently) (co
```

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

All the functionalities have been tested, no issues were found

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x1178915eba4f6fcfdd270c0723c1c5c8f4966636d b65aac263975036263deb6c

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

https://testnet.bscscan.com/tx/0x6b266d508aa009e8915646f92c711f80d0906613 d69ca3f9dac61b8193370fe2

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

https://testnet.bscscan.com/tx/0x02b767db7aa8bac08aa78992ba0f63675d51fcdd 85437c409fd4f63c52716608

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

https://testnet.bscscan.com/tx/0x38a843665500e5f687978a1159ce1fc985afcb42 c637b4de9d0c8d5a2ecf6cae

5- Buying when not excluded from fees (up to 12% tax) (passed):

https://testnet.bscscan.com/tx/0x123553bbcda51a195493344caa9d9a465d0889fe a0de4ddf0841e83c250cbbdd

6- Selling when not excluded from fees (up to 12% tax) (passed):

https://testnet.bscscan.com/tx/0x063a2ea45e893faed527ab489ae7a119fe286741fdedd1f4eccbe065124cf132



FUNCTIONAL TESTING

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

https://testnet.bscscan.com/tx/0xaf3e7487c1aa24da523fd537c7baa1df92d6e3157 3c31cd3ed3dad69e31210a0

8- Internal swap (passed):

Marketing and buyback wallets received BNB

https://testnet.bscscan.com/address/0xa3c518db271c6eca894831d1cc78c1f78c47b174#internaltx

https://testnet.bscscan.com/address/0x8016d389d8940474c207bf3ea40464485de3fd43#internaltx



MANUAL TESTING

Informational - Owner must enable trades

Function: EnableTrading

Overview:

Owner must enable trading for investors, if trading remain disabled holders will not be able to trade their tokens, once trading is enabled can not be disbled again.

```
function EnableTrading() external onlyOwner {
require(!tradingEnabled, "Trading is already enabled");
tradingEnabled = true;
startTradingBlock = block.number;
}
```



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