

# Advanced Manual **Smart Contract Audit**

April 22, 2023

 CoinsultAudits

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Audit requested by



**ElonTrumpCEO**

0x18340bc281119285f09f6dab2163a188d8a5b55d

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# Audit Summary

Project Name	ElonTrumpCEO
Website	<a href="https://elontrumpceo.com">https://elontrumpceo.com</a>
Blockchain	Binance Smart Chain
Smart Contract Language	Solidity
Contract Address	0x18340bc281119285f09f6dab2163a188d8a5b55d
Audit Method	Static Analysis, Manual Review
Date of Audit	22 April 2023

This audit report has been prepared by Coinsult's experts at the request of the client. In this audit, the results of the static analysis and the manual code review will be presented. The purpose of the audit is to see if the functions work as intended, and to identify potential security issues within the smart contract.

The information in this report should be used to understand the risks associated with the smart contract. This report can be used as a guide for the development team on how the contract could possibly be improved by remediating the issues that were identified.

# Audit Scope

Coinsult was commissioned by ElonTrumpCEO to perform an audit based on the following code:

<https://bscscan.com/token/0x18340bc281119285f09f6dab2163a188d8a5b55d#code>

Note that we only audited the code available to us on this URL at the time of the audit. If the URL is not from any block explorer (main net), it may be subject to change. Always check the contract address on this audit report and compare it to the token you are doing research for.

**Contract interacts with unverified contracts where BNB is sent to from fees, these contracts are not audited by Coinsult and can cause risks to the main contract if they revert taking BNB.**

## Audit Method

Coinsult's manual smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. This process is conducted to discover errors, issues and security vulnerabilities in the code in order to suggest improvements and ways to fix them.

### Automated Vulnerability Check

Coinsult uses software that checks for common vulnerability issues within smart contracts. We use automated tools that scan the contract for security vulnerabilities such as integer-overflow, integer-underflow, out-of-gas-situations, unchecked transfers, etc.

### Manual Code Review





Coinsult's manual code review involves a human looking at source code, line by line, to find vulnerabilities. Manual code review helps to clarify the context of coding decisions. Automated tools are faster but they cannot take the developer's intentions and general business logic into consideration.

### Used tools

- Slither: Solidity static analysis framework
- Remix: IDE Developer Tool
- CWE: Common Weakness Enumeration
- SWC: Smart Contract Weakness Classification and Test Cases
- DEX: Testnet Blockchains

# Risk Classification

Coinsult uses certain vulnerability levels, these indicate how bad a certain issue is. The higher the risk, the more strictly it is recommended to correct the error before using the contract.

Vulnerability Level	Description
 Informational	Does not compromise the functionality of the contract in any way
 Low-Risk	Won't cause any problems, but can be adjusted for improvement
 Medium-Risk	Will likely cause problems and it is recommended to adjust
 High-Risk	Will definitely cause problems, this needs to be adjusted

Coinsult has four statuses that are used for each risk level. Below we explain them briefly.

Risk Status	Description
Total	Total amount of issues within this category
Pending	Risks that have yet to be addressed by the team
Acknowledged	The team is aware of the risks but does not resolve them
Resolved	The team has resolved and remedied the risk

# SWC Attack Analysis

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Description	Status
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed

SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed



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SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed



# Global Overview

## Manual Code Review

In this audit report we will highlight the following issues:

Vulnerability Level	Total	Pending	Acknowledged	Resolved
<div></div> Informational	0	0	0	0
<div></div> Low-Risk	5	5	0	0
<div></div> Medium-Risk	0	0	0	0
<div></div> High-Risk	1	1	0	0

## Centralization Risks

Coinsult checked the following privileges:

Contract Privilege	Description
Owner can mint?	<div></div> Owner cannot mint new tokens
Owner can blacklist?	<div></div> Owner cannot blacklist addresses
Owner can set fees > 25%?	<div></div> Owner cannot set the sell fee to 25% or higher
Owner can exclude from fees?	<div></div> Owner can exclude from fees
Owner can pause trading?	<div></div> Owner cannot pause the contract
Owner can set Max TX amount?	<div></div> Owner cannot set max transaction amount



More owner privileges are listed later in the report.

Error Code	Description
SLT: 078	Conformance to numeric notation best practices

● **Low-Risk:** Could be fixed, will not bring problems.

**Too many digits**

Literals with many digits are difficult to read and review.

```
dividendTracker = new DividendTracker(5 * 10 ** 9 * (10 ** 18) / 50000, rewardToken);
```

**Recommendation**

Use: Ether suffix, Time suffix, or The scientific notation

**Exploit scenario**

```
contract MyContract{
    uint 1_ether = 1000000000000000000;
}
```

While 1\_ether looks like 1 ether, it is 10 ether. As a result, it's likely to be used incorrectly.

Error Code	Description
CWE-252	Unchecked Return Value

● **Low-Risk:** Could be fixed, will not bring problems.

## Unchecked transfer

The return value of an external transfer/transferFrom call is not checked.

```
function rescueAnyBEP20Tokens(address _tokenAddr,address _to) external {
    require(_tokenAddr != address(this), "Cannot claim native tokens");
    require(_msgSender() == owner() || _msgSender() == retrieverAddress, "Not allowed");
    require(_to != address(0), "Receiver cannot be null address");

    IERC20(_tokenAddr).transfer(_to,
        IERC20(_tokenAddr).balanceOf(address(this))
    );
}
```

## Recommendation

Use SafeERC20, or ensure that the transfer/transferFrom return value is checked.

## Exploit scenario

```
contract Token {
    function transferFrom(address _from, address _to, uint256 _value) public returns (bool success);
}
contract MyBank{
    mapping(address => uint) balances;
    Token token;
    function deposit(uint amount) public{
        token.transferFrom(msg.sender, address(this), amount);
        balances[msg.sender] += amount;
    }
}
```

Several tokens do not revert in case of failure and return false. If one of these tokens is used in MyBank, deposit will not revert if the transfer fails, and an attacker can call deposit for free..

Error Code	Description
CS: 071	Using safemath in Solidity 0.8.0+

● **Low-Risk:** Could be fixed, will not bring problems.

### Using safemath in Solidity 0.8.0+

SafeMath is generally not needed starting with Solidity 0.8, since the compiler now has built in overflow checking.

```
library SafeMath {
    /**
     * @dev Returns the addition of two unsigned integers, with an overflow flag.
     *
     * _Available since v3.4._
     */
    function tryAdd(uint256 a, uint256 b) internal pure returns (bool, uint256) {
        unchecked {
            uint256 c = a + b;
            if (c < a) return (false, 0);
            return (true, c);
        }
    }

    /**
     * @dev Returns the subtraction of two unsigned integers, with an overflow flag.
```

### Recommendation

Check if you really need SafeMath and consider removing it.

Error Code	Description
CS: 016	Initial Supply

 **Low-Risk:** Could be fixed, will not bring problems.

### Initial Supply

When the contract is deployed, the contract deployer receives all of the initially created assets. Since the deployer and/or contract owner can distribute tokens without consulting the community, this could be a problem.

### Recommendation

Private keys belonging to the employer and/or contract owner should be stored properly. The initial asset allocation procedure should involve consultation with the community.

Error Code	Description
CS: 017	Reliance on third-parties

● **Low-Risk:** Could be fixed, will not bring problems.

### Reliance on third-parties

Interaction between smart contracts with third-party protocols like Uniswap and Pancakeswap. The audit's scope presupposes that third party entities will perform as intended and treats them as if they were black boxes. In the real world, third parties can be hacked and used against you. Additionally, improvements made by third parties may have negative effects, such as higher transaction costs or the deprecation of older routers.

### Recommendation

Regularly check third-party dependencies, and when required, reduce severe effects.

Error Code	Description
CSH-01	Incorrect fees system

● **High-Risk:** Must be fixed, will bring problems.

### Incorrect fees system

```
unchecked {  
  
    //Burn fees have already been taken before  
    _totalTakeFees = totalFees - (buy.burnFee + sell.burnFee);  
  
    newBalance      = address(this).balance - initialBalance;  
    marketingBNB    = (newBalance * (buy.marketingFee + sell.marketingFee)) / _totalTakeFees;  
    farmPoolBNB     = (newBalance * (buy.farmPoolNFTfee + sell.farmPoolNFTfee)) / _totalTakeFees;  
    developmentBNB  = (newBalance * (buy.developmentFee + sell.developmentFee)) / _totalTakeFees;  
  
    developmentBNBdistribute = ((developmentBNB * 85) / 100) / 6;  
  
    rewardsBNB      = (newBalance * (buy.reflectionFee + sell.reflectionFee)) / _totalTakeFees;  
  
}
```

### Recommendation

When all fees are 0, but the burn fees are set to 1 or more, you will divide by 0, and the contract will revert any sell.

## Simulated transaction

Test Code	Description
SIM-01	Testing a normal transfer

<https://testnet.bscscan.com/token/0x10759208d54f629203ad913d3333a5daf979e70c>

## Maximum Fee Limit Check

Error Code	Description
CEN-01	Centralization: Operator Fee Manipulation

Coinsult tests if the owner of the smart contract can set the transfer, buy or sell fee to 25% or more. It is bad practice to set the fees to 25% or more, because owners can prevent healthy trading or even stop trading when the fees are set too high.

Type of fee	Description
Transfer fee	● Owner cannot set the transfer fee to 25% or higher
Buy fee	● Owner cannot set the buy fee to 25% or higher
Sell fee	● Owner cannot set the sell fee to 25% or higher

Type of fee	Description
Max transfer fee	0%
Max buy fee	11%
Max sell fee	11%



## Contract Pausability Check

Error Code	Description
CEN-02	Centralization: Operator Pausability


Coinsult tests if the owner of the smart contract has the ability to pause the contract. If this is the case, users can no longer interact with the smart contract; users can no longer trade the token.

Privilege Check	Description
Can owner pause the contract?	● Owner cannot pause the contract

## Max Transaction Amount Check

Error Code	Description
CEN-03	Centralization: Operator Transaction Manipulation

Coinsult tests if the owner of the smart contract can set the maximum amount of a transaction. If the transaction exceeds this limit, the transaction will revert. Owners could prevent normal transactions to take place if they abuse this function.

Privilege Check	Description
Can owner set max tx amount?	 Owner cannot set max transaction amount

## Exclude From Fees Check

Error Code	Description
CEN-04	Centralization: Operator Exclusion

Coinsult tests if the owner of the smart contract can exclude addresses from paying tax fees. If the owner of the smart contract can exclude from fees, they could set high tax fees and exclude themselves from fees and benefit from 0% trading fees. However, some smart contracts require this function to exclude routers, dex, cex or other contracts / wallets from fees.

Privilege Check	Description
Can owner exclude from fees?	● Owner can exclude from fees


## Ability To Mint Check

Error Code	Description
CEN-05	Centralization: Operator Increase Supply

Coinsult tests if the owner of the smart contract can mint new tokens. If the contract contains a mint function, we refer to the token's total supply as non-fixed, allowing the token owner to "mint" more tokens whenever they want.

A mint function in the smart contract allows minting tokens at a later stage. A method to disable minting can also be added to stop the minting process irreversibly.

Minting tokens is done by sending a transaction that creates new tokens inside of the token smart contract. With the help of the smart contract function, an unlimited number of tokens can be created without spending additional energy or money.

Privilege Check	Description
Can owner mint?	 Owner cannot mint new tokens

## Ability To Blacklist Check

Error Code	Description
CEN-06	Centralization: Operator Dissallows Wallets

Coinsult tests if the owner of the smart contract can blacklist accounts from interacting with the smart contract. Blacklisting methods allow the contract owner to enter wallet addresses which are not allowed to interact with the smart contract.

This method can be abused by token owners to prevent certain / all holders from trading the token. However, blacklists might be good for tokens that want to rule out certain addresses from interacting with a smart contract.

Privilege Check	Description
Can owner blacklist?	● Owner cannot blacklist addresses

## Other Owner Privileges Check

Error Code	Description
CEN-100	Centralization: Operator Privileges

Coinsult lists all important contract methods which the owner can interact with.

Owner can update claimwait between 1 and 24 hours

Owner can claim tokens + BNB balance (non-native)

Owner can claim BNB sent to NFT farm pool and Retriever address

Owner can claim tokens in dividendtracker after 1 year

# Notes

## Notes by ElonTrumpCEO

No notes provided by the team.

## Notes by Coinsult

Multiple transfers on testnet raised errors with estimating gas. We have talked to the team about it to prevent this from happening and showing them test-cases that failed selling. Their response was:

*I found the source of the problem. The problem is not in the contract of the token, but in a verification of the new smart router.*

*The smart router has added an impact price check and does not accept the transaction if the sale is large (valid for sale only)*

*In testnet, as it is only verification, we are used to buying a large % of Supply, often with an impact greater than 10% or 5% in the liquidity pool*

Their team was not working with us to resolve the problem, all they seemed to care about was the speed to finish the audit report. We proposed multiple solutions to fix the issues they were facing, and re-deployed their code multiple times on testnet. DYOR when investing in this project.

# Contract Snapshot

This is how the constructor of the contract looked at the time of auditing the smart contract.

```
contract EE is ERC20, Ownable {

    struct Buy {
        uint256 marketingFee;
        uint256 farmPoolNFTfee;
        uint256 developmentFee;
        uint256 reflectionFee;
        uint256 burnFee;
    }

    struct Sell {
        uint256 marketingFee;
        uint256 farmPoolNFTfee;
        uint256 developmentFee;
        uint256 reflectionFee;
        uint256 burnFee;
    }

    Buy public buy;
    Sell public sell;

    uint256 public totalBuyFee;
    uint256 public totalSellFee;
    uint256 public totalFees;

    string public constant webSite      = "xxx";
    string public constant telegram     = "xxx";
    string public constant twitter      = "xxx";

    IUniswapV2Router02 public immutable uniswapV2Router;
    address public immutable uniswapV2Pair;

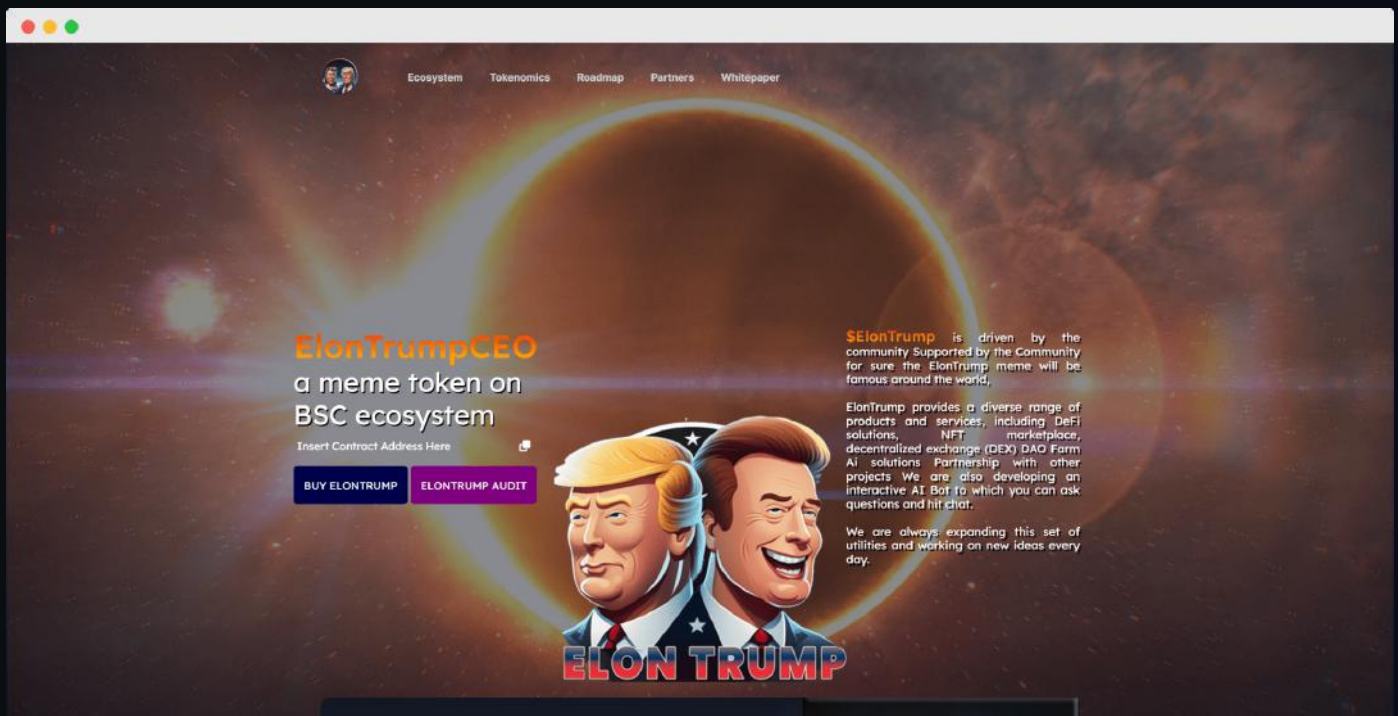
    address public retrieverAddress;
    uint256 public immutable blockTimestampDeploy;

    //Repeated addresses for testnet only. In mainnet there will be 2 different addresses
    address public constant marketingWallet1 = payable(0xCBf9053f51E7869309112F48b52994b30534E7AC);
```



# Website Review

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



Type of check	Description
Mobile friendly?	● The website is mobile friendly
Contains jQuery errors?	● The website does not contain jQuery errors
Is SSL secured?	● The website is SSL secured
Contains spelling errors?	● The website does not contain spelling errors

# Certificate of Proof

● Not KYC verified by Coinsult

## ElonTrumpCEO

Audited by Coinsult.net



Date: 22 April 2023

✓ Advanced Manual Smart Contract Audit

# Disclaimer

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Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

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# End of report

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