



SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



ElonGain
\$ELG

08/02/2022

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DISCLAIMER

The information provided on this analysis document is only for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results of this audit.

The score and the result will stay on this project page information on our website <https://freshcoins.io>

FreshCoins Team does not guarantees that a project will not sell off team supply, or any other scam strategy (RUG or Honeypot etc)



INTRODUCTION

FreshCoins (Consultant) was contracted by ElonGain (Customer) to conduct a Smart Contract Code Review and Security Analysis.

0x20E252d3D6718f70d679CdC591Bd0A55daa78A0B

Network: Binance Smart Chain (BNB)

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on 08/02/2022



AUDIT OVERVIEW



Security Score



Static Scan
Automatic scanning for common vulnerabilities



ERC Scan
Automatic checks for ERC's conformance



High



Medium



Low



Optimizations



Informational



No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Passed
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

OWNER PRIVILEGES

Contract owner can't mint tokens after initial contract deploy

Contract owner can exclude/include wallet from fees

```
function excludeFromFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = true;
}

function includeInFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = false;
}
```

Contract owner can exclude/include wallet from rewards

```
function excludeFromReward(address account) public onlyOwner() {
    require(!_isExcluded[account], "Account is already excluded");
    if (_rOwned[account] > 0) {
        _tOwned[account] = tokenFromReflection(_rOwned[account]);
    }
    _isExcluded[account] = true;
    _excluded.push(account);
}

function includeInReward(address account) external onlyOwner() {
    require(_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

Contract owner can renounce ownership

```
function renounceOwnership() public virtual onlyOwner {
    emit OwnershipTransferred(_owner, address(0));
    _owner = address(0);
}
```

Contract owner can transfer ownership

```
function transferOwnership(address newOwner) public virtual onlyOwner {
    require(newOwner != address(0), "Ownable: new owner is the zero address");
    emit OwnershipTransferred(_owner, newOwner);
    _owner = newOwner;
}
```

Contract owner can change max tx amount

```
function setMaxTxAmount(uint256 maxTxAmount) external onlyOwner() {  
    _maxTxAmount = maxTxAmount;  
}
```

Contract owner can change the fees up to 100%

```
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {  
    _taxFee = taxFee;  
}  
  
function setLiquidityFeePercent(uint256 liquidityFee) external onlyOwner() {  
    _liquidityFee = liquidityFee;  
}
```

Contract owner can change buyback settings

```
function setBuyBackEnabled(bool _enabled) public onlyOwner {  
    buyBackEnabled = _enabled;  
    emit BuyBackEnabledUpdated(_enabled);  
}  
  
function setBuybackUpperLimit(uint256 buyBackLimit) external onlyOwner() {  
    buyBackUpperLimit = buyBackLimit * 10**18;  
}
```

Contract owner can change marketingAddress address and marketingDivisor

Current values:

marketingAddress: [0xfede67618cef05573db7e49352bb15bea28a1395](#)

marketingDivisor: 2

```
function setMarketingAddress(address _marketingAddress) external onlyOwner() {  
    marketingAddress = payable(_marketingAddress);  
}  
  
function setMarketingDivisor(uint256 divisor) external onlyOwner() {  
    marketingDivisor = divisor;  
}  
. . .  
  
function swapTokens(uint256 contractTokenBalance) private lockTheSwap {  
    uint256 initialBalance = address(this).balance;  
    swapTokensForEth(contractTokenBalance);  
    uint256 transferredBalance = address(this).balance.sub(initialBalance);  
    //Send to Marketing address  
    transferToAddressETH(marketingAddress, transferredBalance.div(_liquidityFee).mul(marketingDivisor));  
}
```

Contract owner can change swap settings

```
function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {  
    swapAndLiquifyEnabled = _enabled;  
    emit SwapAndLiquifyEnabledUpdated(_enabled);  
}
```

CONCLUSION AND ANALYSIS



Smart Contracts within the scope were manually reviewed and analyzed with static tools.



Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.



Found no issue during the first review.

TOKEN DETAILS

Details

Buy fees: 0%

Sell fees: 0%

Max TX: N/A

Max Sell: N/A

Honeypot Risk

Ownership: Owned

Blacklist: Not detected

Modify Max TX: Not detected

Modify Max Sell: Not detected

Disable Trading: Not detected

Rug Pull Risk

Liquidity: N/A

Holders: Clean



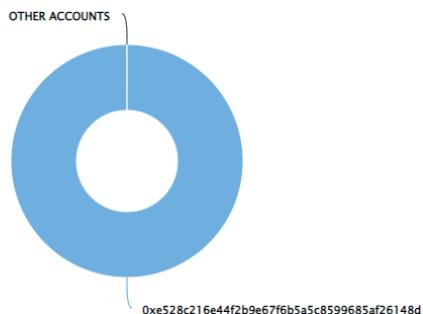
ELONGAIN TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00% (1,500,000,000.00 Tokens) of ElonGain

Token Total Supply: 1,500,000,000.00 Token | Total Token Holders: 1

ElonGain Top 10 Token Holders

Source: BscScan.com



(A total of 1,500,000,000.00 tokens held by the top 10 accounts from the total supply of 1,500,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0xe528c216e44f2b9e67f6b5a5c8599685af26148d	1,500,000,000	100.0000%

TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. The audit can't guarantee the explicit security of the audited project / smart contract.

