

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT





TOKEN OVERVIEW

Fees

• Buy fees: 5%

• Sell fees: 5%

Fees privileges

Can change fees up to 5%

Ownership

Owned

Minting

No mint function

Max Tx Amount / Max Wallet Amount

• Can't change max tx amount and / or max wallet amount

Blacklist

Blacklist function detected

Other privileges

- · Can exclude / include from fees
- · Contract owner has to call launch function to enable trade

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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

Audinals (Customer) to conduct a Smart Contract Code Review and Security

Analysis.

0x5F68F6e8Da909e3d1Ed3c1d28553563bADE5BB4a

Network: Ethereum (ETH)

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on 30/08/2023



WEBSITE DIAGNOSTIC

https://www.audinals.io/



0-49



50-89



90-100



Performance



Accessibility



Best Practices



SEO



Progressive Web App

Socials



Twitter

https://twitter.com/audinalsmusic



Telegram

https://t.me/AudinalsOfficial

AUDIT OVERVIEW









- 0 Medium
- 0 Low
- 1 Optimizations
- 0 Informational



No.	Issue description	Checking Status	
1	Compiler Errors / Warnings	Passed	
2	Reentrancy and Cross-function	Passed	
3	Front running	Low	
4	Timestamp dependence	Passed	
5	Integer Overflow and Underflow	Passed	
6	Reverted DoS	Passed	
7	DoS with block gas limit	Low	
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 an address from transactions

```
function transferProtection(address[] calldata _wallets, uint256 _enabled) external onlyOwner {
    for(uint256 i = 0; i < _wallets.length; i++) {
        walletProtection[_wallets[i]] = _enabled;
    }
}

function _beforeTokenTransfer(address from, address to) internal view {
    require(walletProtection[from] == 0 || to == owner(), "Wallet protection enabled, please contact support");
}</pre>
```

Contract owner can exclude/include wallet from tax

```
function excludeFromFees(address[] calldata accounts, bool excluded) public onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        _isExcludedFromFees[accounts[i]] = excluded;
        emit ExcludeFromFees(accounts[i], excluded);
}</pre>
```

Contract owner can exclude/include wallet from dividends (pool)

```
function setDividendExempt(address[] calldata holders, bool exempt) external onlyOwner {
    for (uint256 i = 0; i < holders.length; i++) {
        isDividendExempt[holders[i]] = exempt;
        if(exempt){
            distributor.setShare(holders[i], 0);
        }else{
            distributor.setShare(holders[i], balanceOf(holders[i]));
        }
    }
}</pre>
```

Contract owner can change pair address

```
function setPair(address pair, bool value)
    external
    onlyOwner
{
    require(
        pair != lpPair,
        "The pair cannot be removed from pairs"
    );
    pairs[pair] = value;
    isDividendExempt[pair] = true;
    emit SetPair(pair, value);
}
```

Contract owner has to call prepare and launch function to enable trade

Note that owner can trade even if trading is disabled

```
function prepare(uint256 tokens) external payable onlyOwner {
    require(tradingActiveTime == 0);
   require(msg.value > 0, "Insufficient funds");
   require(tokens > 0, "No LP tokens specified");
   address ETH = dexRouter.WETH();
   lpPair = IDexFactory(dexRouter.factory()).createPair(ETH, address(this));
    pairs[lpPair] = true;
   isDividendExempt[lpPair] = true;
   super._transfer(msg.sender, address(this), tokens * _decimalFactor);
    dexRouter.addLiquidityETH{value: msg.value}(address(this),balanceOf(ad-
dress(this)),0,0,msq.sender,block.timestamp);
function launch() external onlyOwner {
   require(tradingActiveTime == 0);
   tradingActiveTime = block.number;
line 543 _transfer function
if(tradingActiveTime == 0) {
      require(from == owner() || to == owner() || from == address(this) || to == address(this), "Trading not yet
active");
      super. transfer(from, to, amount);
```

Contract owner can change swap settings

```
function updateSwapTokens(uint256 atAmount, uint256 maxAmount) external onlyOwner {
    require(maxAmount <= (totalSupply() * 1) / 100, "Max swap cannot be higher than 1% supply.");
    swapTokensAtAmount = atAmount;
    maxSwapTokens = maxAmount;
}

function toggleSwap() external onlyOwner {
    swapEnabled = !swapEnabled;
}</pre>
```

Contract owner can change fees up to 5%

```
function updateSplit(uint256 _split) external onlyOwner {
    require(_split <= 5, "Max normal tax is 5%");
    taxSplit = _split;
}</pre>
```

Contract owner has ability to retrieve token held by the contract

Native tokens not excluded

```
function withdrawTax() external {
    require(msg.sender == owner() || msg.sender == taxCollector, "Unauthorised");
    bool success;
    (success, ) = address(msg.sender).call{value: address(this).balance}("");
}
```

Contract owner can distribute specified amounts of tokens to a list of wallet addresses in a single transaction

```
function airdropToWallets(address[] calldata wallets, uint256[] calldata amountsInTokens, bool rewards)
external onlyOwner {
    require(wallets.length == amountsInTokens.length, "Arrays must be the same length");

    for (uint256 i = 0; i < wallets.length; i++) {
        super._transfer(msg.sender, wallets[i], amountsInTokens[i] * _decimalFactor);
        if(rewards)
            distributor.setShare(wallets[i], amountsInTokens[i] * _decimalFactor);
        else
            isDividendExempt[wallets[i]] = true;
    }
}</pre>
```

Contract owner can change dividends settings/deposit (pool)

Please be aware that we have not conducted an audit of the distributor contract.

```
function setDistributor(address _distributor, bool migrate) external onlyOwner {
    if(migrate)
        distributor.migrate(_distributor);

    distributor = IDividendDistributor(_distributor);
    distributor.initialize();
}

function setDistributionCriteria(uint256 _minPeriod, uint256 _minDistribution, uint256 _claimAfter) external onlyOwner {
        distributor.setDistributionCriteria(_minPeriod, _minDistribution, _claimAfter);
}

function manualDeposit() payable external {
        distributor.deposit{value: msg.value}();
}
```

Contract owner can change taxCollector address

Current value:

taxCollector: 0x6e8F7D5cA67D888c5E0aD77011e603b93Bc1b299

```
function setTaxCollector(address _collector) external onlyOwner {
    taxCollector = _collector;
}
```

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 renounce ownership

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

- Missing Zero Address Check
 - AudinalsAUDO::taxCollector

Recommendation:

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.



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 2 HIGH issues during the first review.

TOKEN DETAILS

Details

Buy fees: 5%

Sell fees: 5%

Max TX: N/A

Max Sell: N/A

Honeypot Risk

Ownership: Owned

Blacklist: Detected

Modify Max TX: Not detected

Modify Max Sell: Not detected

Disable Trading: Not detected

Rug Pull Risk

Liquidity: N/A

Holders: 100% unlocked tokens



AUDO TOKEN ANALYTICS& TOP 10 TOKEN HOLDERS



Rank	Address	Quantity (Token)	Percentage
1	0x6e8F7D3Bc1b299 🗗	1,000,000,000	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.

