

AUDIT REPORT SecureWise SMART CONTRACT AUDIT





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Overview

Token Name: DogeVerseToken (DVT)

Methodology: Automated Analysis, Manual Code Review

Language: Solidity

Contract Address: 0xF5646ea3825eD14EE54237310cdB84b4cc84638E

ContractLink: https://bscscan.com/address/0xf5646ea3825ed14ee54237310cdb84b4cc84638e

Network: Binance Smart Chain (BSC)

Decimals: 18

Supply: 3.000.000.000.000

Website: https://dogechampions.io/

Twitter: https://twitter.com/DogeChampions

Telegram: https://www.t.me/DogeChampionsNFT

Report Date: July 22, 2022

Quick Result

SecureWise has applied the automated and manual analysis of Smart Contract and were reviewed for common contract vulnerabilities and centralized exploits

Owner Privileges



Auto liquidity is going to an externally owned account



The owner can exclude accounts from rewards



The owner can exclude accounts from fees



The owner can set fees with limit up to 25%



The owner can set max transaction amount within reasonable limits



The owner can change reward protocol address



The owner can change swap settings

The audited address **0xf5646ea3825ed14ee54237310cdb84b4cc84638e** implements the contract of the coin. The coin contains a dividends tracker feature that receives tokens from a specific tax on every transaction. The dividend tracker is connected with an NFT contract. It shares rewards proportional to the NFT holdings of every user. **The auditing of the dividend tracker and the NFT ecosystem is out of the scope of this audit.**

Auditing Approach and Methodologies

SecureWise has performed starting with analyzing the code, issues, code quality, and libraries. Reviewed line-by-line by our team. Finding any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

Methodology

- Understanding the size, scope and functionality of your project's source code
- Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Testing and automated analysis of the Smart Contract to determine proper logic has been followed throughout the whole process
- Deploying the code on testnet using multiple live test
- Analyzing a program to determine the specific input that causes different parts of a program to execute its functions.
- Checking whether all the libraries used in the code are on the latest version.

Goals

Smart Contract System is secure, resilient and working according to the specifications and without any vulnerabilities.

Risk Classification

High: Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.

Medium: Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.

Low: Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

Automated Analysis

Symbol	Meaning
•	Function can modify state
	Function is payable

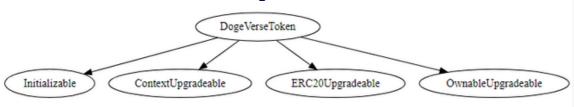
DogeVerseToken	Implementation	Initializable, ContextUpgradeable, ERC20Upgradeable, OwnableUpgradeable		
L		Public	•	NO
L	initialize	Public	•	initializer
L	name	Public		NO
L	symbol	Public		NO
L	decimals	Public		NO
L	totalSupply	Public		NO
L	balanceOf	Public		NO
L	transfer	Public	•	NO
L	allowance	Public		NO
L	approve	Public	•	NO
L	transferFrom	Public	•	NO
L	increaseAllowance	Public	•	NO
L	decreaseAllowance	Public	•	NO
L	isExcludedFromReward	Public		NO
L	totalFees	Public		NO
L	deliver	Public	•	NO
L	reflectionFromToken	Public		NO
L	tokenFromReflection	Public		NO
L	excludeFromReward	Public	•	onlyOwner
L	includeInReward	External	•	onlyOwner
L	_transferBothExcluded	Private 👚	•	
L	excludeFromFee	Public	•	onlyOwner
L	excludeFromMaxTx	Public	•	onlyOwner
L	excludeFromAll	Public	•	onlyOwner
L	includeInFee	Public	•	onlyOwner

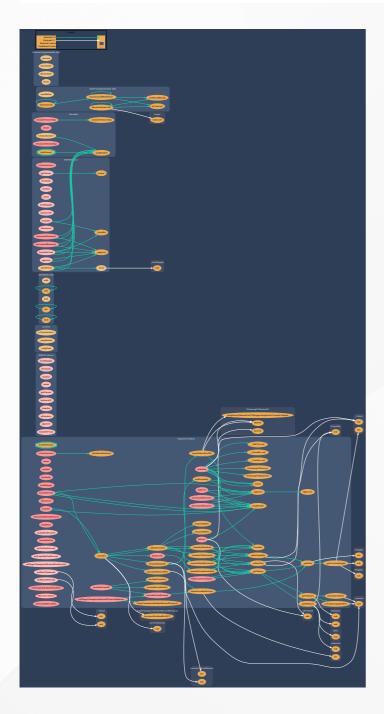
Automated Analysis

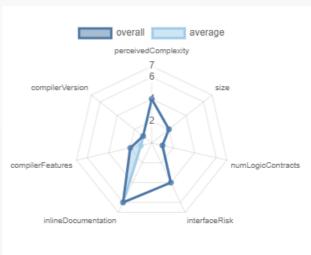
L	setTaxFeePercent	External	•	onlyOwner
L	setLiquidityFeePercent	External	•	onlyOwner
L	setDogeChampionsRewardFeePercent	External	•	onlyOwner
L	setMaxTxPercent	External	•	onlyOwner
L	setMaxTxAmount	External	•	onlyOwner
L	setSwapAndLiquifyEnabled	Public .	•	onlyOwner
L	setDogeChampionsRewardProtocolAddress	Public !	•	onlyOwner
L		External	100	NO
L	_reflectFee	Private 👚	•	
L	_getValues	Private 🔮		
L	_getTValues	Private 🔮		
L	_getRValues	Private 🔮		
L	_getRate	Private 🔮		
L	_getCurrentSupply	Private 🔮		
L	_takeLiquidity	Private 🔮	•	
L	calculateTaxFee	Private 🔮		
L	calculateLiquidityFee	Private 😷		
L	calculateRewardFee	Private 🕙		
L	removeAllFee	Private 🔮	•	
L	restoreAllFee	Private 🔮	•	
L	isExcludedFromFee	Public !		NO
L	_approve	Internal 🖺	•	
L	_transfer	Internal 🦰	•	
L	swapAndLiquify	Private 🕙		lockTheSwap

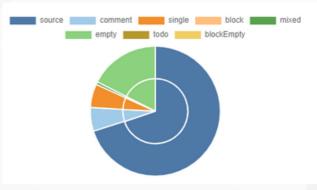
L	swapTokensForEth	Private Private	•	
L	addLiquidity	Private Private	•	
L	_tokenTransfer	Private Private	•	
L	_transferStandard	Private Private	•	
L	_transferToExcluded	Private	•	
L	_transferFromExcluded	Private Private	•	

Inheritance Graph









Contract Summary

Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
1		566	559	421	36	337	.5
1		566	559	421	36	337	65

Components | Contracts | Libraries | Contracts | Cont

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

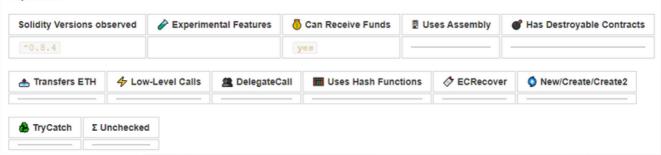


External	Internal	Private	Pure	View
7	37	20	1	18

StateVariables

Total	Public
29	9

Capabilities



Auto liquidity is going to an externally owned account

```
function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {
    // approve token transfer to cover all possible scenarios
    _approve(address(this), address(uniswapV2Router), tokenAmount);

    // add the liquidity
    uniswapV2Router.addLiquidityETH{value: ethAmount}(
        address(this),
        tokenAmount,
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        owner(),
        block.timestamp
    );
}
```

Recommendation

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Send LP tokens to dead address or unreachable address.

The owner can exclude accounts from rewards

Recommendation

Authorizing privileged roles to exclude accounts from rewards. These cause affect decentralization.

The owner can exclude accounts from fees

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

Recommendation

Authorizing privileged roles to exclude accounts from fees. These cause affect decentralization.

The owner can exclude accounts from max transaction

```
function excludeFromMaxTx(address account) public onlyOwner {
    _isExcludedFromMaxTx[account] = true;
}
```

Recommendation

Authorizing privileged roles to exclude accounts from max transaction. These cause affect decentralization and might be issue in the future for big buy and sell.

The owner can set fees with limit up to 25%

```
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {
    require(taxFee + _liquidityFee + _dogeChampionsRewardFee <= 25, "Total tax amount can't exceed 25% per transaction.");
    _taxFee = taxFee;
}

function setLiquidityFeePercent(uint256 liquidityFee) external onlyOwner() {
    require(_taxFee + liquidityFee + _dogeChampionsRewardFee <= 25, "Total tax amount can't exceed 25% per transaction.");
    _liquidityFee = liquidityFee;
}

function setDogeChampionsRewardFeePercent(uint256 dogeChampionsRewardFee) external onlyOwner() {
    require(_taxFee + _liquidityFee + dogeChampionsRewardFee) external onlyOwner() {
    require(_taxFee + _liquidityFee + dogeChampionsRewardFee <= 25, "Total tax amount can't exceed 25% per transaction.");
    _dogeChampionsRewardFee = dogeChampionsRewardFee;
}
</pre>
```

Recommendation

Authorizing privileged roles to can set fees with limit up to 25%.

The owner can set max transaction amount within reasonable limits

Recommendation

Authorizing privileged roles to set max transtaction amount within reasonable limits. can't set 0 or very close to 0. so amount within reasonable limits.

The owner can change reward protocol address

```
function setDogeChampionsRewardProtocolAddress(address rewardProtocolAddress) public onlyOwner {
    dogeChampionsHolderRewardProtocol = DogeChampionsHolderRewardProtocol(rewardProtocolAddress);
    dogeChampionsRewardProtocolAddress = rewardProtocolAddress;
    _isExcludedFromFee[dogeChampionsRewardProtocolAddress] = true;
    _isExcludedFromMaxTx[dogeChampionsRewardProtocolAddress] = true;
    excludeFromReward(dogeChampionsRewardProtocolAddress);
}
```

Recommendation

Authorizing privileged roles to change reward protocol address. it is excluded from fees and rewards. If call this function and change new address, previous address remains excluded even if it is not used a reward address. Should be removed from exclude part.

The owner can change swap settings

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

Recommendation

Authorizing privileged roles to enable or disable the swap. These cause affect decentralization.

Public functions that are never called by the contract should be declared external to save gas.

isExcludedFromFee
setDogeChampionsRewardProtocolAddress
setSwapAndLiquifyEnabled
includeInFee
excludeFromAll
reflectionFromToken
deliver
totalFees
isExcludedFromReward

Recommendation

Should use external attribute for functions never called from the contract.

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https://github.com/securewise

https://securewise.info/

