



# SMART CONTRACT SECURITY AUDIT

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WATCHTOWER

# AUDIT DETAILS



**Project Name**  
DonkSwap Token



**Contract address**  
0x3969Fe107bAe2537cb58047159a83C33dfbD73f9



**Deployer Address:**  
0xc24324Cf5C8027317c048A88C711772488574Cdb



**Blockchain**  
Binance Smart Chain



**Project website:**  
<http://www.DonkSwap.com>



# DISCLAIMER

Watchtower has completed this report to provide a summary of the Smart Contract functions, and any security, dependency or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as at the date of this report. In order to understand the full scope of our analysis, it is vital for you to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against Watchtower or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your own independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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## ABOUT THE AUDITOR:

Watchtower is an Anti-Scam Token Utility which reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity.

Watchtowers Development Team consists of a number of Smart Contract creators, Auditors Developers and Blockchain experts.

Watchtowers Website Scanner reviews a number of Risk factors to provide an adequate Risk summary of token projects.

In Addition to this the team also helps with Creation of Smart Contracts for legitimate projects, Audits and Promotion.





# OVERVIEW

**Watchtower was commissioned by DonkSwap to complete a Smart Contract audit.**

**The objective of the Audit is to achieve the following:**

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

**DISCLAIMER:** This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, All investments are made at your own risk.

(<https://www.cryptowatchtower.io/>)



# SMART CONTRACT REVIEW



## Contract Created on the 16th May 2021

Contract name	DonkSwap Token
Contract address	0x3969Fe107bAe2537cb58047159a83C33dfbD73f9
Total supply	700,000,000,000,000
Token ticker	DST
Decimals	9
Token holders	2,310
Transactions count	2,784
Top 5 holders dominance	15% excl 70% migration wallet
Tax fee	6%
Total fees	6% ~ BUY / SELL
Contract deployer address	0x2d6165C577759aD3379cEB33Bb659f5dC9A9f4F4
Contract's current owner address	0x55a46FceD2d46C64EEE7189a50004627559E81B1



# Project Overview

## Project Details:

Donkey King Finance has launched their own BSC exchange that will focus on only listing projects that have passed a full contract audit and have doxed their Development Team.

The team is also developing its own BSC Casino that is expected to launch by Q2 of 2022. Projects listed on DonkSwap will be able to feature their tokens in the casino.

## Tokenomics:

Starting Supply: 700,000,000,000,000 (700 Trillion)

6% Tax for Buys and Sells which comprises of:

2% Burn

2% Redistribution to Holders

2% Automatic Liquidity

## Team Review:

Watchtower reviewed a number of factors including the teams background and Cryptocurrency experience, social media interaction and availability, project momentum, token risks and community trust score.

The Donkey King Finance Team has conveyed sound Cryptocurrency knowledge, Technical Blockchain and Web development skills conveyed by the quality of development and Web 3 Applications for the DonkSwap exchange.

(<https://donkswap.com/#/swap>)



# CONTRACT FUNCTIONS DETAILS

## Functions (Public)

1. approve (address,uint256)
2. decreaseAllowance (address,uint256)
3. deliver (uint256)
4. excludeFromFee (address)
5. excludeFromReward (address)
6. includeInFee (address)
7. includeInReward (address)
8. increaseAllowance (address,uint256)
9. lock (uint256)
10. removeAllFees
11. renounceOwnership
12. restoreAllFees
13. setDevFeePercent (uint256)
14. setLiquidityFeePercent (uint256)
15. setMaxTxPercent (uint256)
16. setSwapAndLiquifyEnabled (bool)
17. setTaxFeePercent (uint256)
18. transfer (address,uint256)
19. transferDevAddress (address)
20. transferFrom (address,address,uint256)
21. transferOwnership (address)
22. unlock



# Contract Stress Test

## Imported Libraries / Interfaces

- IERC20
- SafeMath
- Context
- Address
- Ownable
- IUniswapV2Factory
- IUniswapV2Pair
- IUniswapV2Router01
- IUniswapV2Router02

## Overview

1. ADDITION OF COMMENTS:	8
2. CALL STACK DEPTH ATTACK:	10
3. TIME STAMP DEPENDENCY:	10
4. PARTY MULTISIG BUG:	10
5. USE OF LIBRARIES/DEPENDENCIES (FROM TRUSTED SOURCES):	10
a. TRANSACTION-ORDERING DEPENDENCY:	10
6. ACCESS CONTROL AND AUTHORIZATION:	10
7. REENTRANCY ATTACKS:	10
8. ERC/BEP STANDARD VIOLATIONS:	10
9. USAGE OF VISIBILITY LEVELS:	10



# ISSUES CHECKING STATUS



Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Passed
10. Methods execution permissions.	Passed



Issue description	Checking status
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed



# SECURITY ISSUES



## High Severity Issues

Pair Address not excluded from rewards - (Resolved on 8/10/2021)



## Medium Severity Issues

- `numTokensSellToAddLiquidity` is set to `50,000,000,000,000` and it could cause a dump.
- Centralization Risk:
  - `setLiquidityFeePercent`, `setDevFeePercent`, `setTaxFeePercent` can be set to 100 disallowing users to trade.
  - `setMaxTxPercent` can be set to 0 disallowing users to make transactions



## Low Severity Issues

When the contract enters the branch `else if (!_isExcluded[sender] && !_isExcluded[recipient])`, the contract will execute the same piece of code `_transferStandard(sender, recipient, amount)`



# CONCLUSION



**Watchtower reviewed DonkSwap's deployed and verified contract to conduct this audit.**

**Watchtower is satisfied that the contract has no malicious coding and that no severe issues have been found.**

**The Donkswap team responded to an urgent fix of the pair address needing to be excluded from rewards to avoid skimming risk.**

## ***Watchtower Disclaimer:***

*Please check the disclaimer page and note, this Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or in any way provide financial advice, please do your own research. By reading this report you accept and agree to the disclaimer and understand investments are made at your own risk.*

*(<https://www.cryptowatchtower.io/>)*

## **Contact Us**

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