



{P()LY BL[]CK AUDITS}

Security Assessment

DONASWAP

Januari 19th, 2022

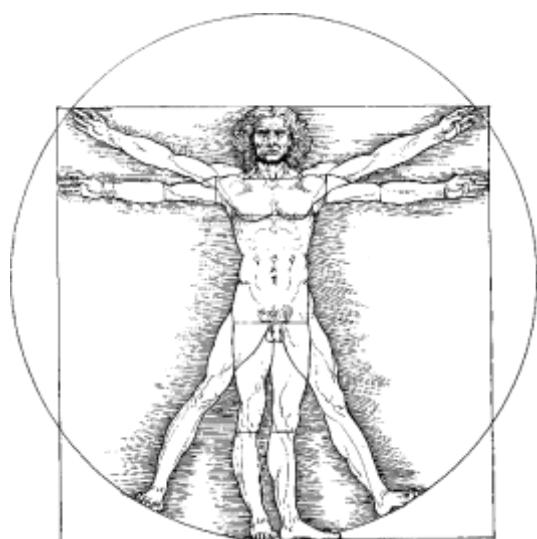




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DISCLAIMER

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.





Summary

This report has been prepared for the DONASWAP smart contracts, to discover issues and vulnerabilities in the source code of their Smart Contract as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Dynamic Analysis, Static Analysis, and Manual Review techniques.

- The auditing process pays special attention to the following considerations:
- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the code base to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client. Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases given they are currently missing in the repository;
- Provide more comments per each function for readability, especially contracts are verified in public;
- Provide more transparency on privileged activities once the protocol is live.





Audit Details

Audited Project:	DONASWAP SMART CONTRACT
Audit Methodology:	Static Analysis, Manual Review, Testnet Deployment
Project Component:	Donaswap.sol
Project Deployer:	0x9b5eb92e35c0f87beba27cee0465b1f6ec3af6cc
Project Contract:	0xa6bf49ab16c2b42a6bc9c6eb531873a53f5e43d7
Project Blockchain:	Binance Smart Chain
Project Website:	https://www.donaswap.com





Contract Overview

Project Name:	DONASWAP SMART CONTRACT
Contract Address :	0xa6bf49ab16c2b42a6bc9c6eb531873a53f5e43d7
Total Supply:	100,000,000,000,000,000
Symbol:	DONA
Decimals:	9
Current Holders:	4
Current Transactions:	3
Top Holder 100 Dominance:	100%
Total Tax Fee:	10%
Contract Deployer Address:	0x9b5eb92e35c0f87beba27cee0465b1f6ec3af6cc
Current Contract Owner:	0x9b5eb92e35c0f87beba27cee0465b1f6ec3af6cc
Language:	Solidity
Version:	0.8.11





Contract Functions

Interface IERC20 {

[External] totalSupply
[External] balanceOf
[External] transfer
[External] allowance
[External] approve
[External] transferFrom
}

Library SafeMath {

[Internal] add
[Internal] sub
[Internal] sub
[Internal] mul
[Internal] div
[Internal] div
[Internal] mod
[Internal] mod
}

Library Address {

[Internal] isContract
[Internal] sendValue
[Internal] functionCall
[Internal] functionCall||
[Internal] functionCallWithValue
[Internal] functionCallWithValue
[Prv] _functionCallWithValue
}

Contract Context {

[Internal] _msgSender
[Internal] _msgData
}

Contract Ownable {

[Internal] <Constructor>
[Public] owner
[Public] renounceOwnership
[Public] transferOwnership
}

Interface IUniswapV2Factory {

[External] feeTo
[External] feeToSetter
[External] getPair
[External] allPairs
[External] allPairsLength
[External] createPair
[External] setFeeTo
[External] setFeeToSetter
}

Interface IUniswapV2Pair {

[External] name
[External] symbol
[External] decimals
[External] totalSupply
[External] balanceOf
[External] allowance
[External] approve
[External] transfer
[External] transferFrom
[External] DOMAIN_SEPARATOR
[External] PERMIT_TYPEHASH
[External] nonces
[External] permit
[External] MINIMUM_LIQUIDITY
[External] factory
[External] token0
[External] token1
[External] getReserves
[External] price0CumulativeLast
[External] price1CumulativeLast
[External] kLast
[External] mint
[External] burn
[External] swap
[External] skim
[External] sync
[External] initialize
}





Issues Checking Status

Interface IUniswapV2Router01 {

[External] factory
[External] WETH
[External] addLiquidity
[External] addLiquidityETH
[External] removeLiquidity
[External] removeLiquidityETH
[External] removeLiquidityWithPermit
[External] removeLiquidityETHWithPermit
[External] swapExactTokensForTokens
[External] swapTokensForExactTokens
[External] swapTokensForExactETH
[External] swapExactTokensForETH
[External] swapBNBForExactTokens
[External] quote
[External] getAmountOut
[External] getAmountIn
[External] getAmountsOut
[External] getAmountsIn
}

Interface IUniswapV2Router02 {

[External] removeLiquidityETHSupportingFeeOnTransferTokens
[External] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens
[External] swapExactTokensForTokensSupportingFeeOnTransferTokens
[External] swapExactETHForTokensSupportingFeeOnTransferTokens
[External] swapExactTokensForETHSupportingFeeOnTransferTokens
}

Contract Donaswap {

[Public] <Constructor>
[Public] name
[Public] symbol
[Public] decimals
[Public] totalSupply
[Public] balanceOf
[Public] transfer
[Public] allowance
[Public] approve
[Public] transferForm
[Public] increaseAllowance
[Public] decreaseAllowance
[Public] isExcludedFromReward

[Public] totalFees
[Public] minimumTokensBeforeSwapAmount
[Public] deliver
[Public] reflectionFromToken
[Public] tokenFromReflection
[Public] excludeFromReward
[External] includeInReward
[Public] excludeFromFee
[Public] includeInFee
[External] setTaxFeePercent
[External] setLiquidityFeePercent
[External] setMaxTxPercent
[External] setNumTokensSellToAddToLiquidity

[Public] setSwapAndLiquifyEnabled
[External] <fallback>
[Private] _reflectFee
[Private] _getTValues
[Private] _getRValues
[Private] _getRate
[Private] _getCurrentSupply
[Private] _takeLiquidity
[Private] calculateTaxFee
[Private] calculateLiquidityFee
[Private] removeAllFee
[Private] restoreAllFee
[Public] isExcludedFromFee
[Private] _approve
[Private] _transfer
[Private] swapAndLiquify
[Private] swapTokensForEth
[Private] addLiquidity
[Private] _tokenTransfer
[Private] _transferStandard
[Private] _transferToExcluded
[Private] _transferFromExcluded
[Private] _transferBothExcluded
[Public] changeRouterVersion
[Public] getBNBQuantityInContract
[External] getBNBInContract
[External] withdrawToken
}





Security Issues Checking Status

No	Issue description	Status
01	Compiler errors.	Passed
02	Race conditions and Reentrancy. Cross-function race conditions.	Passed
03	Possible delays in data delivery.	Passed
04	Oracle calls.	Passed
05	Front running.	Passed
06	Timestamp dependence.	Passed
07	Integer Overflow and Underflow.	Passed
08	DoS with Revert.	Passed
09	DoS with block gas limit.	Passed
10	Methods execution permissions.	Passed
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	Fallback function security.	Passed





Security Issues

Extreme Issues

NO EXTREME ISSUES FOUND

High Issues

NO HIGH ISSUES FOUND

Medium Issues

NO MEDIUM ISSUES FOUND

Low Issues

NO LOW ISSUES FOUND

Informational Issues

NO INFORMATIONAL ISSUES FOUND





Smart Contract Owner Functions

In the contract Donaswap.sol, the role Owner has the authority over the following function:

- transferOwnership
- excludeFromReward
- includeInReward
- excludeFromFee
- setTaxFeePercent
- setLiquidityFeePercent
- setNumTokensSellToAddToLiquidity
- setSwapAndLiquifyEnabled
- setMaxTxPercent
- setRouterAddress
- getBNBInContract
- withdrawToken

The team is adding multisignature wallets to prevent a single point of failure.



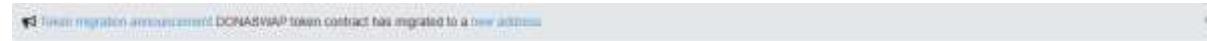


Top Holders Overview

V1 overview before the V2 migration to: 0xa6bf49ab16c2b42a6bc9c6eb531873a53f5e43d7



Official V1 -> V2 migration announcement by BscScan





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Conclusion

The smart contract contains no security issues. Please read our disclaimer above!

Liquidity lock at DxSale:

<https://dxsale.app/app/v3/dxlockview?id=1&add=0x9b5EB92e35c0F87BEbA27Cee0465B1f6Ec3aF6cC&type=lplock&chain=BSC>





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KYC Verification Certificate



Audited on: 01-19-2022
Audited by: Polymathist, the auditor

