

AUDIT REPORT SecureWise SMART CONTRACT AUDIT





Table of Contents

03

Disclaimer

04

Overview

05

Quick Result

06

Auditing Approach and Methodologies 07

Automated Analysis **12**

Inheritance Graph

13

Contract Summary 14

Manual Review

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Overview

Token Name: Carib DAO (CARIB)

Methodology: Automated Analysis, Manual Code Review

Language: Solidity

Contract Address: 0x9f8b8FE01b26957cf3dcd6FBd3675053bA2c02C8

ContractLink: https://bscscan.com/address/0x9f8b8FE01b26957cf3dcd6FBd3675053bA2c02C8

Network: Binance Smart Chain (BSC)

Decimals: 8

Supply: 100.000.000

Website: https://caribdao.com/

Twitter: https://twitter.com/caribdao

Telegram: https://t.me/caribdao

Report Date: October 18, 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



The owner can set the max tx amount "0"



The owner can set fees up to 100%



The owner can exclude accounts from fees



The owner can change swap settings

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.

Symbol	Meaning
•	Function can modify state
•	Function is payable

IERC20	Interface			
L	totalSupply	External		NO
L	balanceOf	External		NO
L	transfer	External		NO
L	allowance	External		NO
L	approve	External		NO
L	transferFrom	External		NO
SafeMath	Library			
L	add	Internal 🗂		
L	sub	Internal 🗂		
L	sub	Internal 🖺		
L	mul	Internal 🗂		
L	div	Internal 🗂		
L	div	Internal 🔓		
L	mod	Internal 🗂		
L	mod	Internal 🗂		
Context	Implementation			
L	_msgSender	Internal 📤		
L	_msgData	Internal 🖺		
Address	Library			
L	isContract	isContract Internal 6		
L	sendValue	Internal 🖺		
L	functionCall	Internal 🗂		
L	functionCall	Internal 🗂		
L	functionCallWithValue	Internal 🗂		
L	functionCallWithValue	Internal 🗂		
L	_functionCallWithValue	Private 😷		
Ownable	Implementation	Context		
L		Internal 🔒		
L	owner	Public		NO
L	renounceOwnership	Public		onlyOwner
L	transferOwnership	Public		onlyOwner
L	geUnlockTime	Public		NO
L	lock	Public		onlyOwner
L	unlock	Public		NO

UnlewapV2Factory	Interface			
	feeTo	External		NO
	feeToSetter	External		NO
-	getPair	External		NO
L	allPairs	External		NO
L	allPairsLength	External		NO
L	createPair	External		NO
L	setFeeTo	External		NO
-	setFeeToSetter	External	•	NO
UnlawapV2Palr	Interface			
	name	External		NO
L	symbol	External		NO
L	decimals	External		NO
L	totalSupply	External		NO
L	balanceOf	External		NO
L	allowance	External		NO
L	approve	External		NO
	transfer	External		NO
L	transferFrom	External		NO
L	DOMAIN_SEPARATOR	External		NO
L	PERMIT_TYPEHASH	External		NO
_	nonces	External		NO
L	permit	External		NO
L	MINIMUM_LIQUIDITY	External		NO
L	factory	External		NO
L	token0	External		NO
L	token1	External		NO
L	getReserves	External		NO
L	price0CumulativeLast	External		NO
L	price1CumulativeLast	External		NO
L	kLast	External		NO
L	mint	External		NO
L	burn	External		NO
L	swap	External		NO
L	skim	External		NO
L	sync	External		NO
L	initialize	External		NO!

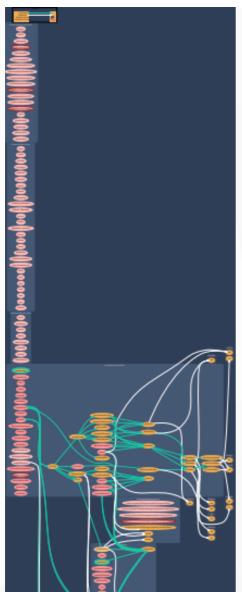
IUnlewapV2Router01	Interface			
L	factory	External		NO
	WETH	External		NO
	addLiquidity	External		NO
L	addLiquidityETH	External	Œ	NO
L .	removeLiquidity	External		NO
_	removeLiquidityETH	External		NO
L .	removeLiquidityWithPermit	External		NO
	removeLiquidityETHWithPermit	External		NO
_	swapExactTokensForTokens	External		NO
_	swapTokensForExactTokens	External		NO
L	swapExactETHForTokens	External	Œ	NO
	swapTokensForExactETH	External		NO
L	swapExactTokensForETH	External		NO
L	swapETHForExactTokens	(II)	NO	
L	quote	External		NO
L	getAmountOut	External		NO
L	getAmountin	External		NO
L	getAmountsOut External			NO
	getAmountsin External			NO
UniswapV2Router02	Interface	IUniswapV2Router01		
_	removeLiquidityETHSupportingFeeOnTransferTokens	External		NO
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens External			NO
_	swapExactTokensForTokensSupportingFeeOnTransferTokens	External		NO
_	swapExactETHForTokensSupportingFeeOnTransferTokens	External	m	NO
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External		NO

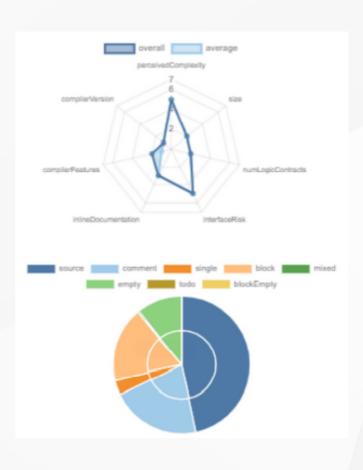
LiquidityGeneratorToken	Implementation	Context, IERC20, Ownable		
L		Public		NO
L	name	Public		NO
L	symbol	Public		NO
L	decimals	Public		NO
L	totalSupply	Public		NO
L	balanceOf	Public		NO
L	transfer	Public		NO
L	allowance	Public		NO
L	approve	Public		NO
L	transferFrom	Public		NO
L	increaseAllowance	Public		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	_transferBothExcluded	Private 🔮		
L	excludeFromFee	Public		anlyOwner
L	includeInFee	Public		onlyOwner
L	setTaxFeePercent	External		onlyOwner
L	setLiquidityFeePercent	External		onlyOwner
L	setMaxTxPercent	External		onlyOwner
L	setSwapAndLiquifyEnabled	Public		onlyOwner
L		External	1	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	removeAllFee	Private 👚		
L	restoreAlFee	Private 😷		
L	isExcludedFromFee	Public		NO

L	_reflectFee	Private 👚	
L	_gefValues	Private 👚	
L	_getTValues	Private 👚	
L	_getRValues	Private 🔮	
L	_getRate	Private 👚	
L	_getCurrentSupply	Private 👚	
L	_takeLiquidity	Private 👚	
L	calculateTaxFee	Private 👚	
L	calculateLiquidityFee	Private 👚	
L	removeAllFee	Private 👚	
L	restoreAllFee	Private 👚	
L	isExcludedFromFee	Public	NO
L	_approve	Private 👚	
L	_transfer	Private 👚	
L	swapAndLiquify	Private 👚	lockTheSwap
L	swapTokensForEth	Private 👚	
L	addLiquidity	Private 👚	
L	_tokenTransfer	Private 👚	
L	_transferStandard	Private 📴	
L	_transferToExcluded	Private 📴	
L	_transferFromExcluded	Private 📴	
L	disableFees	Public	onlyOwner
L	enableFees	Public	onlyOwner

Inheritance Graph





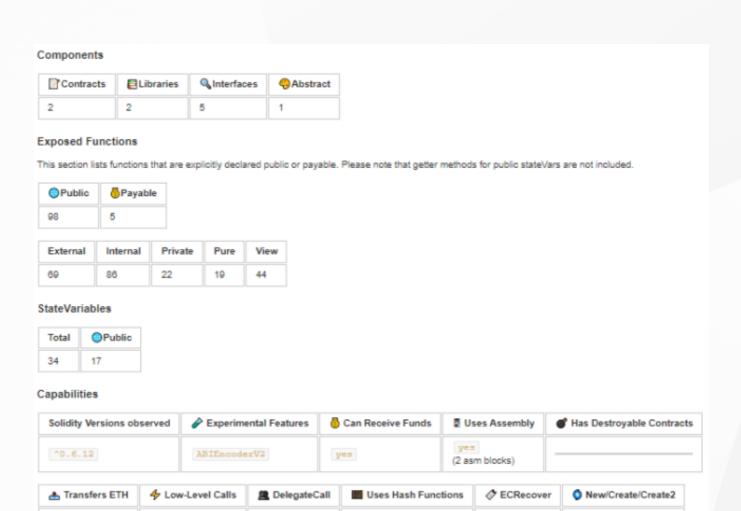


Contract Summary

TryCatch

Σ Unchecked

Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
5	5	1162	882	526	314	525	₽
5	5	1162	882	526	314	525	□ 20 米



Manual Review

The owner can set the max tx amount "0"

Recommendation

These functions should be provided arbitrary limits, e.g., put a **require** check that allows maximum limit etc. if **set 0** these cause pause the trading.

The owner can set fees up to 100%

Recommendation

These functions should be provided arbitrary limits, e.g., put a **require** check that allows maximum limit etc.

Manual Review

The owner can exclude accounts from fees

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

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

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

Recommendation

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

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.

AUDIT REPORT SecureWise **SMART CONTRACT AUDIT**

- https://github.com/securewise
- https://t.me/securewise
 https://securewise.info/

