

Smart Contract Vulnerability Audit

DCM

Dec 15, 2021



Smart Contract – Audit Overview

Project Summary

Project Name	DCM
Platform	Binance Smart Chain
Language	Solidity
Commits	0x1a2bf408934e265c5f28ebd7dd2d3f61f6e61347

Audit Summary

Delivery Date	December 16, 2021
Method of Audit	Human and AI
Consultants Engaged	One
Timeline	December 15, 2021 – December 16, 2021

Vulnerability Summary

Vulnerability Level	Total	Resolved
Critical	0	✓
Major	0	✓
Medium	0	✓
Minor	0	✓

Smart Contract - Contract Overview

All information is recorded as of 12/15/2021.

Contract Name	DCM.sol
Contract Ticker	DCM
Contract Address	0x1A2Bf408934E265c5f28EBD7DD2D3f61f6e61347
Contract Creator	0xCe400C96a110f940571CA82e568fbddbD9E7Ee7B
Decimals	9
Total Supply	2,000,000,000
Token Holders	1
Token Transfers	1
Compiler Version	v0.8.7+commit.e28d00a7
Source Code	Solidity
Optimization Enabled	No with 200 runs
Other Settings	default evmVersion, MIT license

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Function Default Visibility				
Integer Overflow and Underflow				
Outdated Compiler Version				
Unchecked Call Return Value				
Unprotected Ether Withdrawal				
Unprotected SELFDESTRUCT Instruction				
Unencrypted Private Data On-Chain				

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Reentrancy				
Uninitialized Storage Pointer				
Assert Violation				
Use of Deprecated Solidity Functions				
Delegatecall to Untrusted Callee				
DoS with Failed Call				
Code With No Effects				

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Missing Protection against Signature Replay Attacks	✓	✓		✓
Lack of Proper Signature Verification	✓	✓		✓
Requirement Violation	✓	✓		✓
Write to Arbitrary Storage Location	✓	✓		✓
Incorrect Inheritance Order	✓	✓		✓
Insufficient Gas Griefing	✓	✓		✓
Arbitrary Jump with Function Type Variable	✓	✓		✓

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
DoS With Block Gas Limit				
Typographical Error				
Right-To-Left-Override control character				
Presence of unused variables				
Unexpected Ether balance				
Hash Collisions With Multiple Variable Length Arguments				
Message call with hardcoded gas amount				

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Transaction Order Dependence				
Block values as a proxy for time				
Signature Malleability				
Incorrect Constructor Name				
Shadowing State Variables				
Weak Sources of Randomness from Chain Attributes				

Smart Contract - Code Analysis

We did not identify any minor nor significant vulnerabilities within the contract code.



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Smart Contract - Contract Functions

- + Context
 - [Int] _msgSender
 - [Int] _msgData
- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + [Lib] SafeMath
 - [Int] add
 - [Int] sub
 - [Int] sub
 - [Int] mul
 - [Int] div
 - [Int] div
 - [Int] mod
 - [Int] mod
- + [Lib] Address
 - [Int] isContract
 - [Int] sendValue #
 - [Int] functionCall #
 - [Int] functionCall #
 - [Int] functionCallWithValue #
 - [Int] functionCallWithValue #
 - [Prv] _functionCallWithValue #
- + Ownable (Context)
 - [Pub] <Constructor> #
 - [Pub] owner
 - [Pub] waiveOwnership #
 - modifiers: onlyOwner
 - [Pub] transferOwnership #
 - modifiers: onlyOwner
 - [Pub] getUnlockTime
 - [Pub] getTime
 - [Pub] lock #
 - modifiers: onlyOwner
 - [Pub] unlock #



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Smart Contract - Contract Functions

+ [Int] IUniswapV2Factory

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

+ [Int] IUniswapV2Pair

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



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Smart Contract - Contract Functions

+ [Int] IUniswapV2Router01

- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH (\$)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens (\$)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens (\$)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn

+ [Int] IUniswapV2Router02 (IUniswapV2Router01)

- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

+ DCM (Context, IERC20, Ownable)

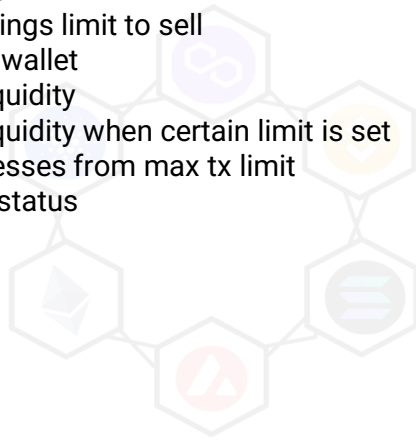
- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] allowance
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] minimumTokensBeforeSwapAmount
- [Pub] approve #
- [Prv] _approve #
- [Pub] setMarketPairStatus #
 - modifiers: onlyOwner
- [Ext] setIsTxLimitExempt #
 - modifiers: onlyOwner

Smart Contract - Contract Functions

- [Pub] setIsExcludedFromFee #
 - modifiers: onlyOwner
- [Ext] setBuyTaxes #
 - modifiers: onlyOwner
- [Ext] setSellTaxes #
 - modifiers: onlyOwner
- [Ext] setDistributionSettings #
 - modifiers: onlyOwner
- [Ext] setMaxTxAmount #
 - modifiers: onlyOwner
- [Ext] enableDisableWalletLimit #
 - modifiers: onlyOwner
- [Ext] setIsWalletLimitExempt #
 - modifiers: onlyOwner
- [Ext] setWalletLimit #
 - modifiers: onlyOwner
- [Ext] setNumTokensBeforeSwap #
 - modifiers: onlyOwner
- [Ext] setMarketingWalletAddress #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyByLimitOnly #
 - modifiers: onlyOwner
- [Pub] getCirculatingSupply
- [Prv] transferToAddressETH #
- [Pub] changeRouterVersion #
 - modifiers: onlyOwner
- [Ext] <Receive Ether> (\$)
- [Pub] transfer #
- [Pub] transferFrom #
- [Prv] _transfer #
- [Int] _basicTransfer #
- [Prv] swapAndLiquify #
 - modifiers: lockTheSwap
- [Prv] swapTokensForEth #
- [Prv] addLiquidity #
- [Int] takeFee #

Smart Contract - Owner Functions

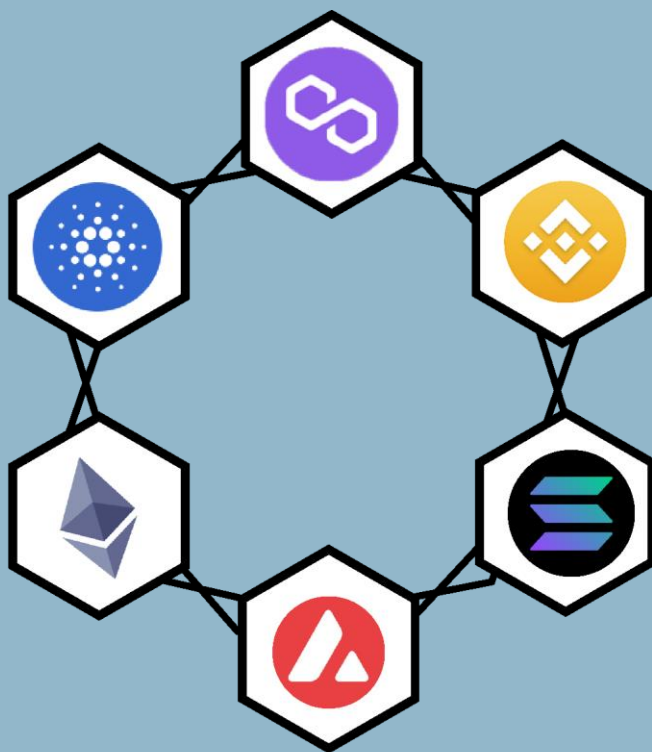
- Owner can modify buy taxes
- Owner can modify sell taxes
- Owner can modify liquidity and marketing distribution
- Owner can set max tx amount
- Owner can enable/disable wallet limit
- Owner can whitelist addresses from wallet limit
- Owner can set wallet limit
- Owner can set token holdings limit to sell
- Owner can set marketing wallet
- Owner can enable auto liquidity
- Owner can enable auto liquidity when certain limit is set
- Owner can whitelist addresses from max tx limit
- Owner can set AMM pair status



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