



RugFreeCoins Audit



Decom Credit Token

Smart Contract Security Audit

April 09, 2022

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Audit details



Audited project
Decom Credit Token



Contract Address
0xDCbd5274cAdBeE2Fce708B9787dBa1010A342e2E



Client contact
Decom Token Team



Blockchain
Binance smart chain



Project website
<https://decomlabs.org/>

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 disclaimer below – please make sure to read it in full.

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Background

Rugfreecoins was commissioned by the Decom Team to perform an audit of the smart contract.

<https://bscscan.com/token/0xDCbd5274cAdBeE2Fce708B9787dBa1010A342e2E>

The focus of this audit is to verify that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, long-term sustainability, and as a guide to improving the security posture of the smart contract by remediating the issues that were identified.

About the project

Decom is a token built on the Binance Smart Chain that is with an innovative investment use case the main purpose of which is to seek out constant revenue sources, and heading towards building even greater Community, building a large-scale SaaS platform for providing marketing services with trustless peer-to-peer transactions based on escrow deals and feedback system. Each transaction, purchase and sell incur 6% fee.

Features

- The **sustainability fee of 4% when buying and selling for dev a** is what allows Decom token to hold the aforementioned promise. Tokens will be swapped into BNB and will be sent to a dev wallet per transaction. This way, Decom token will have enough funds to promote the coin and spend for future development without selling tokens as the traditional way.
- The additional component included under the sustainability section is a **liquidity fee of 2% when buying and selling**, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.
- The vision is focus toward Decentralized Marketing in the crypto space, where buyers and sellers should be able to conduct secure and fair deals, independent of third parties, and minimize mark-ups on services by eliminating or reducing the number of intermediaries.
- Enables marketing agents to provide their services on Decom Market with minimal verification to prevent the sale of illegal items or services and allows customers to shop for marketing items with a decentralized wallet. Decentralized marketing platform Decom Market also offers decentralized financial functions such as yield farm and pool.

Roadmap

Phase 01 (Q2 - 2022)

- Private Sale Round
- Decom SaaS Market Alpha Released
- Decom Credit (\$DCM) deployed
- KYC passed
- Fully Certified Audit
- Initial DEX Offering (IDO)
- PancakeSwap Listing

Phase 02 (Q3 - 2022)

- Yield Farming Hub established and launched
- Decom SaaS Market Beta released
- Decom Ecosystem partnership advertisement
- Decom Clubs and politics released
- Most influential marketing services cooperation

Phase 03 (Q4 - 2022)

- Decom DAO and Politics released
- Full-functioning Decom Saas Market platform released
- Hacken Audited
- Introduction of ambassadors
- Research, development and promotion of alliances and partnerships
- Decom SaaS Market platform major updates

Phase 04 (Q1 - 2023)

- Networking with affiliates, developers and venture capital funds
- Cross-Chain expansion and integration
- Introduction of additional sections and options
- Global tournaments and events with exclusive access for \$DCM holders

Tokenomics

6% fee when buying & selling

- 4% of trade goes to the marketing wallet in BNB
- 2% of trade goes to the liquidity pool.

Target market and the concept

Target market

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part with farming.
- Anyone who's ready to take part with Decom marketing services.
- Anyone who's ready to take part with Decom escrow deals and feedback system.
- Anyone who's interested in taking part with the future plans of the Decom Token Ecosystem.
- Anyone who's interested in making financial transactions with any other party using Decom as the currency.

Core concept

Sustainable mechanism

The **sustainability fee of 4% when buying and selling for dev** is what allows Decom to promote the token and use funds to further the development of the platform. Tokens will be swapped into BNB and will be sent to a dev wallet. This way, Decom will have access to the funds without selling tokens as the traditional way, which will enable them to consume funds without hurting the project.

The liquidity fee of 2% when buying and selling, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.

The Decom Platform

The below two parts collectively aims to cover the purpose of the Decom Market platform of catering to the needs of our community in the rapidly evolving market.

1. Decentralized Marketing SaaS Platform (DEX)
2. Tokenization: Decom Credit (\$DCM)

Decom Market

Protecting Deals

Buying on Decom Market takes place in three stages:

- The buyer selects an offer of interest in the table, contacts the seller, and makes payment in cryptocurrencies through the site.
- The seller fulfils his obligations.
- The buyer finally completes the transfer of funds to the seller.

In this way, all orders on Decom Market are protected: the seller cannot receive money until the order is completed.

Right Seller

All transactions on Decom Market are secured, however, for added security users can reassure themselves and pay attention to the following seller's specifications:

Reviews. The more, the better. It will be useful to read the reviews themselves - sometimes they contain quite valuable information.

Dates of reviews. Also, a very important parameter, because even if the date of registration of seller's account is old (which in itself is good), but absolutely all reviews are received recently, it means that the seller is not so experienced and reliable.

Order amount. Each review shows the monetary amount of the order to which it applies. This may be useful if you are placing a large order and the merchant has reviews for smaller orders only.

This is all very important as it can only be achieved through long months of trading and dealing adequately with buyers' problems, if any.

Fulfillment of order

If users have made a deal on Decom Market, they should not expect the site to instantly give something automatically. Execution of the order is done by the seller, entirely manually. If they have purchased a marketing service, the seller will send you the details of the account via chat on our website.

Time frame for the order

The buyer and seller are expected to discuss the due date on their own, before the deal is done.

It is very important to write to the seller before paying, as sellers are often not on site and if you pay without notice you will either have to wait for the seller or contact customer service for a refund.

If there is no agreement on timing between buyer and seller, Decom will make a decision based on the average turnaround time for similar orders on our site when resolving any dispute or conflict situation.

Order cancellation

If users need to cancel the order and get your money back, you can do this in two ways:

1. Contact the retailer. The seller can make the refund by pressing the appropriate button in the interface.
2. Contact the administration which can do the same

Submit offers

You can submit and find any marketing offer on the Decom Market, select the parameters and find the right agent.

Find an agent

Scalable options and a list of marketing services, collaboration and profitable deals without intermediaries - all in the decentralised Decom SaaS platform.

Communicate

Hitting someone up was never so easy. Use integrated chats to pop up in the visible area of your wished marketing agent.

Feedback System

Profiles on Decom Market are rated, with an integrated feedback system, after each deal the platform will offer to rate the marketer.

Governance

Decom Credit (\$DCM) will integrate the DAO Governance protocol, all holders will be offered voting pools to further develop the Decom Ecosystem.

Earn Cashback

\$DCM serves as access to the Decom Market, with which you can pay for a monthly subscription and receive cashback on deals completed.

Potential to grow with score points

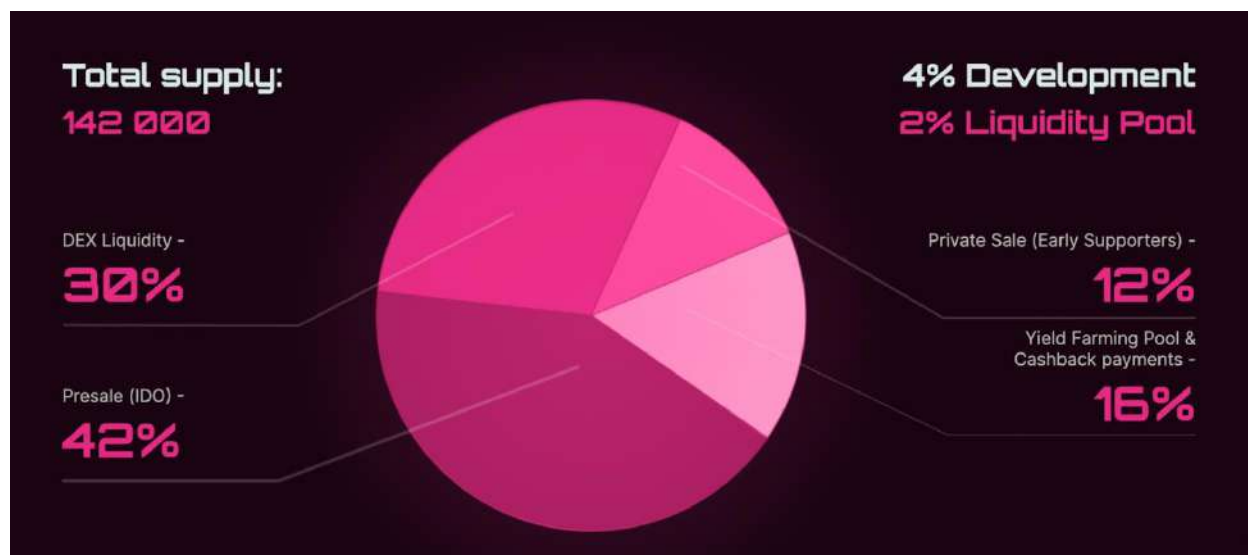
1.	Project efficiency	9/10
2.	Project uniqueness	9/10
3	Information quality	9/10
4	Service quality	9/10
5	System quality	9/10
6	Impact on the community	9/10
7	Impact on the business	9/10
8	Preparing for the future	9/10
Total Points		9/10

Contract details

Token contract details for 9th April 2022

Contract name	Decom Credit
Contract address	0xDCbd5274cAdBeE2Fce708B9787dBa1010A342e2E
Token supply	142,000
Token ticker	DCM
Decimals	9
Token holders	1
Transaction count	1
Development wallet address	0x3cbf6fcb57e87cecfeea0e1525a72e81b0451b15
Contract deployer address	0xd08EA382C095479aBb1ffe2709744Fd1562f13e5
Contract's current owner address	0x6743e0dbdb2ab1014044486f1fa4cb9a73ef2fbe

Token Distribution as follows:








Contract code function details














No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
3	Business security	Access control of owners	High Centralisation Risk
		Business logics	Low issue
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
















10	DoS (Denial of Service)		pass
11	Token vesting implementation		pass
12	Fake deposit		pass
13	Event security		pass













Contract description table

























The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.











Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
IUniswapV2 Factory	Interface			
L	feeTo	External !		NO !
L	feeToSetter	External !		NO !
L	getPair	External !		NO !
L	allPairs	External !		NO !
L	allPairsLength	External !		NO !
L	createPair	External !		NO !
L	setFeeTo	External !		NO !
L	setFeeToSetter	External !		NO !
IUniswapV2 Router01	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !		NO !
L	addLiquidityETH	External !		NO !

L	removeLiquidity	External !		NO!
L	removeLiquidityETH	External !		NO!
L	removeLiquidityWithPermit	External !		NO!
L	removeLiquidityETHWithPermit	External !		NO!
L	swapExactTokensForTokens	External !		NO!
L	swapTokensForExactTokens	External !		NO!
L	swapExactETHForTokens	External !		NO!
L	swapTokensForExactETH	External !		NO!
L	swapExactTokensForETH	External !		NO!
L	swapETHForExactTokens	External !		NO!
L	quote	External !		NO!
L	getAmountOut	External !		NO!
L	getAmountIn	External !		NO!
L	getAmountsOut	External !		NO!
L	getAmountsIn	External !		NO!
IUniswapV2 Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO!
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO!



L	swapExactETHForTokensSupportingFee OnTransferTokens	External !		NO!
L	swapExactTokensForETHSupportingFee OnTransferTokens	External !		NO!
SafeMath	Library			
L	tryAdd	Internal 		
L	trySub	Internal 		
L	tryMul	Internal 		
L	tryDiv	Internal 		
L	tryMod	Internal 		
L	add	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	sub	Internal 		
L	div	Internal 		
L	mod	Internal 		
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 !
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
Ownable	Implementation	Context		
L		Public !		NO !
L	owner	Public !		NO !
L	renounceOwnership	Public !		onlyOwner
L	transferOwnership	Public !		onlyOwner
L	_transferOwnership	Internal 		
DCM	Implementation	IERC20, Ownable		
L		Public !		NO !
L		External !		NO !
L	totalSupply	External !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !

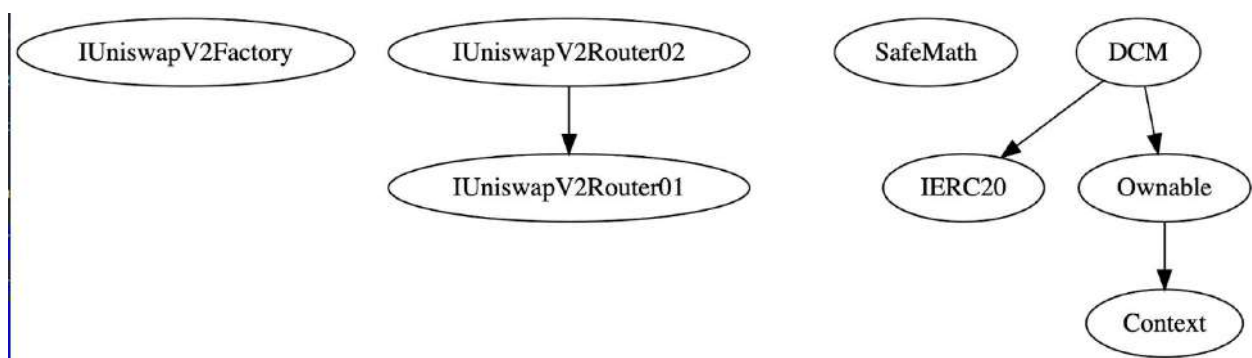
L	decimals	Public !		NO!
L	balanceOf	Public !		NO!
L	allowance	External !		NO!
L	approve	Public !		NO!
L	_approve	Internal 		
L	approveMax	External !		NO!
L	transfer	External !		NO!
L	transferFrom	External !		NO!
L	_transferFrom	Internal 		
L	_basicTransfer	Internal 		
L	shouldTakeFee	Internal 		
L	takeFee	Internal 		
L	shouldSwapBack	Internal 		
L	clearStuckBalance	External !		onlyOwner
L	updateBuyFees	Public !		onlyOwner
L	updateSellFees	Public !		onlyOwner
L	updateSwapPercentages	Public !		onlyOwner
L	tradingStatus	Public !		onlyOwner
L	whitelistPreSale	Public !		onlyOwner
L	swapBackInBnb	Internal 		swapping
L	swapAndLiquify	Private 		

L	swapTokensForEth	Private 		
L	addLiquidity	Private 		
L	setIsFeeExempt	External 		onlyOwner
L	setFeeReceivers	External 		onlyOwner
L	setSwapBackSettings	External 		onlyOwner

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

- **High severity issues**

No High severity issues found.

- **Medium severity issues**

No medium severity issues found

- **Low severity issues**

No low severity issues found

- **Centralization risk**

High severity centralization risk

- ❖ The owner can change all buy and sell fees without any maximum limit (can set 100%)

```
ftrace | funcSig
function updateBuyFees(uint256 dev↑, uint256 liquidity↑) public onlyOwner {
    buyDevFee = dev↑;
    buyLiquidityFee = liquidity↑;
    buyTotalFees = dev↑.add(liquidity↑);
}

ftrace | funcSig
function updateSellFees(uint256 dev↑, uint256 liquidity↑) public onlyOwner {
    selDevFee = dev↑;
    sellLiquidityFee = liquidity↑;
    sellTotalFees = dev↑.add(liquidity↑);
}
```

- ❖ The owner can enable/disable trading anytime

```
ftrace | funcSig
function tradingStatus(bool _status↑) public onlyOwner {
    tradingOpen = _status↑;
}
```

Owner privileges

- ❖ The owner can get contract bnb balance to owner wallet

```
ftrace | funcSig
function clearStuckBalance(uint256 amountPercentage↑) external onlyOwner {
    uint256 amountBNB = address(this).balance;
    payable(msg.sender).transfer((amountBNB * amountPercentage↑) / 100);
}
```

- ❖ The owner can change all buy and sell fees

```
ftrace | funcSig
function updateBuyFees(uint256 dev↑, uint256 liquidity↑) public onlyOwner {
    buyDevFee = dev↑;
    buyLiquidityFee = liquidity↑;
    buyTotalFees = dev↑.add(liquidity↑);
}

ftrace | funcSig
function updateSellFees(uint256 dev↑, uint256 liquidity↑) public onlyOwner {
    selDevFee = dev↑;
    sellLiquidityFee = liquidity↑;
    sellTotalFees = dev↑.add(liquidity↑);
}
```

- ❖ The owner can change swap percentages

```
ftrace | funcSig
function updateSwapPercentages(uint256 dev↑, uint256 liquidity↑)
    public
    onlyOwner
{
    devSwap = dev↑;
    liquiditySwap = liquidity↑;
    totalSwap = dev↑.add(liquidity↑);
}
```

- ❖ The owner can enable/disable trading

```
ftrace | funcSig
function tradingStatus(bool _status↑) public onlyOwner {
    tradingOpen = _status↑;
}
```

- ❖ The owner can whitelist address

```
ftrace | funcSig
function whitelistPreSale(address _preSale↑) public onlyOwner {
    isFeeExempt[_preSale↑] = true;
    isAuthorized[_preSale↑] = true;
}
```

- ❖ The owner can include/exclude wallets from fees

```
ftrace | funcSig
function setIsFeeExempt(address holder↑, bool exempt↑) external onlyOwner {
    isFeeExempt[holder↑] = exempt↑;
}
```

- ❖ The owner can change dev wallet address

```
ftrace | funcSig
function setFeeReceivers(address _wallet↑) external onlyOwner {
    devFeeReceiver = _wallet↑;
}
```

- ❖ The owner can enable/disable swapping and can change swap point

```
ftrace | funcSig
function setSwapBackSettings(bool _enabled↑, uint256 _amount↑)
|
|   external
|   onlyOwner
|
| {
|   |
|   | swapEnabled = _enabled↑;
|   | swapThreshold = _amount↑;
|   |
| }
| }
```

Audit conclusion

RugFreeCoins team has performed in-depth testings, line by line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

Smart contract functional Status: **PASSED**

Number of risk issues: **2**

Solidity code functional issue level: **PASSED**

Number of owner privileges: **8**

Centralization risk correlated to the active owner: **HIGH**

Smart contract active ownership: **YES**