

RugFreeCoins Audit



MovingOn Finance

Smart Contract Security Audit

May 05, 2022

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Audit details



Audited project MovingOn Finance Token



Contract Address

0xc4901c34cd8FB49107c1CB874EfF5cAA2eAeD7d1



Client contact

MovingOn Finance Team



Blockchain

Binance smart chain



Project website

https://www.movingon.finance/

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 MovingOn Finance Team to perform an audit of the smart contract.

https://bscscan.com/token/0xc4901c34cd8fb49107c1cb874eff5caa2eaed7d1

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.

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About the project

MovingOn Finance 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, it is a method of health training, based on that, users can earn corresponding profits. That is the contemporary trend --> **Move-To-Earn**. Users can own their favorite NFTs to do move outdoors to earn profits with MOVON tokens. Each transaction, purchase incurs 1% fee, and sale incurs a 15% fee.

Features

- The sustainability fee of 1% when buying and 10% when selling for marketing and reward pool is what allows MovingOn Finance to hold the aforementioned promise. Tokens will be swapped into BNB and will be sent to a marketing wallet. This way, MovingOn Finance 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 **5% when selling**, which is a allocated for staking pool.

Roadmap

Start-UP

- Connect ideas
- · Set up business model

Phase 1

- Documents
- Application design
- Website
- Social network connection

Phase 2

- Data Deployment
- Build MOVON application
- Deploy smart contracts
- Audit
- Integration test: Uber, Lyft, Grab, Didi, Ola

Phase 3

- Marketing plans
- Airdrop campaign
- Support partner
- Influencers
- Fairlaunch on Pinksale

Phase 4

- Listing PancakeSwap
- Listing CMC/CGK
- NFT implementation
- Technology partner
- Internal Testing

Phase 5

- Launch and integrate NFT
- GPS Integration
- Public Testing
- Fix bugs
- Launch app beta

Phase 6

- CEX listing
- Marketing
- Official launch MOVON app
- Review on Appstore and GooglePlay
- Achievement Ranking

Phase 7

- Cross-chain implementation
- Multi-chain partner
- Physical product development
- Product copyright

Tokenomics

1% fee when buying

• 1% of trade goes to the marketing wallet in BNB.

15% fee when buying

- 10% of trade goes to the marketing wallet in BNB.
- 5% of trade goes to the staking wallet in tokens.

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 collecting NFTs or trading NFTs.
- Anyone who's interested in taking part with staking.
- Anyone who's interested in exercise and get rewards through activities: Walking, Running and Cycling.
- Anyone who own transport vehicles such as motorbikes and cars can participate in Drive activities to receive rewards
- Anyone who's interested in taking part with the future plans of the MovingOn Finance Token Ecosystem.
- Anyone who's interested in making financial transactions with any other party using MovingOn Finance as the currency.

Core concept

Sustainable mechanism

The sustainability fee of 1% when buying and 10% when selling for marketing and rewards pool is what allows MovingOn Finance 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 marketing wallet. This way, MovingOn Finance will have access to the funds without selling tokens as the traditional way, which will enable them to consume funds without hurting the project.

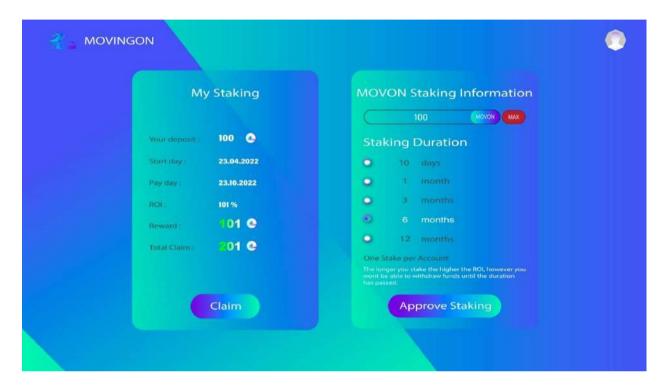
Staking mechanism

In addition to the Move-To-Earn mechanism, MovingOn Finance will implement a Staking product so that MOVON token holders can earn passive profits. Staking is essential to maintaining a safe and healthy network.

- MOVON token holders can option for staking packages (10 days, 1 month, 3 months, 6 months, 1 year). Fixed interest rate for each package
- The longer you save the higher the ROI, however you won't be able to withdraw funds until the duration has passed
- One Save per Wallet

Staking rewards distribution includes:

- 21% of the total supply will be distributed to Staking in 25 months
- 5% of each Sell transaction on PancakeSwap will be transferred to the Staking address as a reward.
- 2.5% of each transaction on Marketplace will be transferred to the Staking address as a reward.

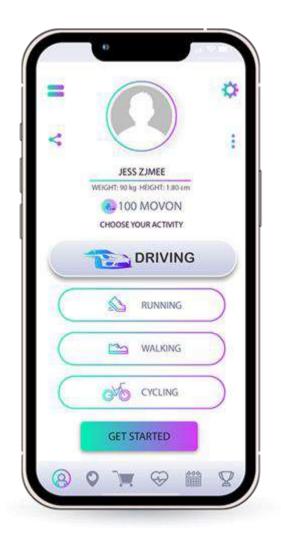


The MOVON application

The MOVON application is divided into two main groups of activities:

Move-To-Earn: Users can exercise and get rewards through activities: Walking, Running, and Cycling. The application uses GPS - Global Positioning System and combines with other devices such as smartwatches to measure distance, calories, and heart rate,...

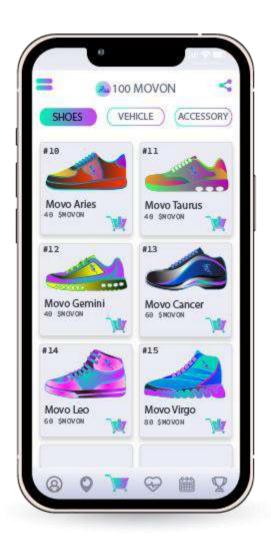
Drive-To-Earn: Users who own transport vehicles such as motorbikes and cars can participate in Drive activities to receive rewards. This activity is very suitable for technology taxi drivers (Uber, Lyft, Grab, Didi, Ola,...). The application uses GPS - Global Positioning System and other anti-cheat devices to measure the distance.



NFTs

These are tokens that have been designed to be unique. They are used to identify a specific owner. Once you own the NFT, you can then use it or sell it as you please. You could set any price you want on the Marketplace.

Shoes



Vehicle



Potential to grow with score points

1.	Project efficiency	9/10
2.	Project uniqueness	10/10
3	Information quality	10/10
4	Service quality	9/10
5	System quality	9/10
6	Impact on the community	10/10
7	Impact on the business	9/10
8	Preparing for the future	10/10
9	Smart contract security	10/10
10	Smart contract functionality assessment	10/10
Total Points		9.6/10

Contract details

Token contract details for 5th May 2022

Contract name	MovingOn Finance
Contract address	0xc4901c34cd8FB49107c1CB874EfF5cAA2eAeD7d1
Token supply	100,000,000
Token ticker	MOVON
Decimals	18
Token holders	2
Transaction count	6
Treasury address	0x1b51122c0740c55206be4b3413cdb44156c79488
Staking address	0x1529e3b77da40531a05ca186ceed1b2f6a3e1ba2
Contract deployer address	0x7F87c1C5e3d0Ace34CBD23D5eDff04Ebb3bED989
Contract's current owner address	0x000000000000000000000000000000000000

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
		Self-destruct function security	pass
3	Business security	Access control of owners	pass
		Business logics	pass
		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	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
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 🦺		
		<u>'</u>		

IERC20	Interface		
Ĺ	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		
Ľ	_msgSender	Internal 🖺	
L	_msgData	Internal 🦲	
IUniswapV2 Factory	Interface		
	Interface feeTo	External	NO.
Factory		External	NO.
Factory L	feeTo		
Factory L	feeTo feeToSetter	External .	NO
Factory L L	feeTo feeToSetter getPair	External .	NO.
Factory L L L	feeTo feeToSetter getPair allPairs	External L External L External L	NO.
E L L L L	feeTo feeToSetter getPair allPairs allPairsLength	External . External . External .	NO! NO! NO!

IUniswapV2 Router01	Interface			
L	factory	External [NO.
L	WETH	External [NO.
L	addLiquidity	External [NO.
L	addLiquidityETH	External [ВD	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 [ВD	NO.
L	swapTokensForExactETH	External [NO.
L	swapExactTokensForETH	External [NO.
L	swapETHForExactTokens	External [вĐ	NO.
L	quote	External [NO.
L	getAmountOut	External [NO.
L	getAmountIn	External [NO.
L	getAmountsOut	External [NO.
L	getAmountsIn	External [NO.

IUniswapV2 Router02	Interface	IUniswap V2 Router01		
L	removeLiquidityETHSupportingFeeOnTr ansferTokens	External		NO.
L	removeLiquidityETHWithPermitSupportin gFeeOnTransferTokens	External [NO.
L	swapExactTokensForTokensSupporting FeeOnTransferTokens	External [NO.
L	swapExactETHForTokensSupportingFee OnTransferTokens	External [иĐ	NO.
L	swapExactTokensForETHSupportingFee OnTransferTokens	External [NO.
IUniswapV2 Pair	Interface			
L	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.
L	transfer	External [NO.
L	transferFrom	External [NO.
L	DOMAIN_SEPARATOR	External [NO
L	PERMIT_TYPEHASH	External		NO
L	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.
Ownable	Implementation	Context	
L		Public	NO.
L	owner	Public	NO.
L	renounceOwnership	Public	onlyOwner
L	transferOwnership	Public	onlyOwner

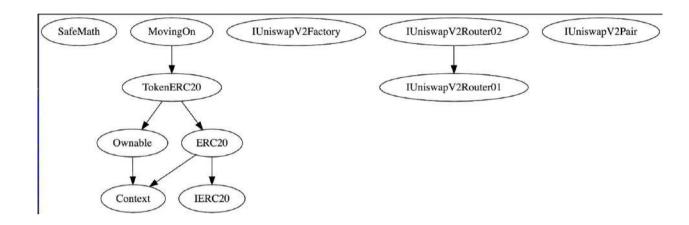
ERC20	Implementation	Context,	
		IERC20	
L		Public	NO
L	name	Public	NO.
L	symbol	Public [NO
L	decimals	Public	NO
L	totalSupply	Public	NO
L	balanceOf	Public	NO
L	transfer	Public [NO
L	allowance	Public [NO
L	approve	Public	NO
L	transferFrom	Public [NO
L	increaseAllowance	Public	NO
L	decreaseAllowance	Public [NO
L	_transfer	Internal 🖺	
L	_mint	Internal 🖺	
L	_burn	Internal 🖺	
L	_approve	Internal 🖺	
L	_setupDecimals	Internal 🖺	
L	_beforeTokenTransfer	Internal 🖺	

TokenERC20	Implementation	Ownable, ERC20		
L		Public		ERC20 Ownable
L	setAntiWhaleAmount	Public		onlyTreasury
L	isAntiWhaleEnded	Public		NO.
L	setStakingAddress	External		onlyTreasury
L	setTransferFeeRate	Public		onlyTreasury
L	setPresaleAddress	Public		onlyTreasury
L	sweepBNB	Public		onlyTreasury
L	sweepToken	Public		onlyTreasury
MovingOn	Implementation	TokenER C20		
L		Public		TokenERC2 0
L	burn	Public		NO.
L	_transfer	Internal 🖺		
L	shouldSwapBack	Internal 🖺		
L	swapBack	Internal 🖺		swapping
L	swapTokensForEth	Private 🖺		
L	shouldTakeFee	Internal 🖺		
L	takeFee	Internal 🖺		swapping
L		External	<u> </u>	NO.

Legend

Symbol	Meaning
	Function can modify state
SD	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

No Centralization issues found

Owner privileges

The owner can enable antiwhale system (Once it's enabled it will end after 15 min) the owner can enable it only one time

```
ftrace|funcSig
function setAntiWhaleAmount(uint256 _amount1) public onlyTreasury {
    // set anti whale amount also activate antibot
    require(antiWhaleAmount == 0, "Can active antiWhale once"); // antiWhale can only activate once
    antiWhaleAmount = _amount1;
    antiWhaleStartTime = block.timestamp - 10; // safty margin 10s
}
```

The owner can change staking address

```
ftrace|funcSig
function setStakingAddress(address _stakingAddress†) external onlyTreasury {
    stakingAddress = _stakingAddress†;
}
```

The owner can change buy fees maximum up to 1% and sell fees maximum up to 15%

The owner can add multiple presale addresses

```
ftrace|funcSig
function setPresaleAddress(address _presaleAddress1) public onlyTreasury {
    presaleAddress[_presaleAddress1] = true;
}
```

❖ The owner can get BNB and other BEP20 tokens in the contract

```
ftrace|funcSig
function sweepBNB(address _to^) public onlyTreasury {
    payable(_to^).transfer(address(this).balance);
}

ftrace|funcSig
function sweepToken(address _token^, address _to^) public onlyTreasury {
    IERC20(_token^).transfer(_to^, IERC20(_token^).balanceOf(address(this)));
}
```

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: NONE

Solidity code functional issue level: PASSED

Number of owner privileges: 5

Centralization risk correlated to the active owner: LOW

Smart contract active ownership: YES