

# SECURITY AUDIT

MuskSwap

September, 2021

Website: soken.io



# **Table of Contents**

Table of Contents	2
Disclaimer	3
Procedure	4
Terminology	5
Limitations	5
Token Contract Details for 22.09.2021	6
Audit Details	6
Social Profiles	7
Token Contract Overview	7
MUSK Token Distribution	8
Contract Function Details	9
Vulnerabilities checking	12
Security Issues	13
Conclusion	14
Soken Contact Info	15



#### Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.



#### **Procedure**

#### Our analysis contains following steps:

- 1. Project Analysis;
- 2. Manual analysis of smart contracts:
- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- · Hashes of all transaction will be recorded
- · Behaviour of functions and gas consumption is noted, as well.

#### 3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

#### 4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph



## **Terminology**

# We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue less important, must be analyzed
- Medium-severity issue important, needs to be analyzed and fixed
- High-severity issue —important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue —serious bug causes, must be analyzed and fixed.

#### Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.



## Token Contract Details for 22.09.2021

Contract Name: MuskToken

Deployed address: 0xcD657182A749554fc8487757612F02226355269d

Total Supply: **300,000,122,993,934.456915** 

Token Tracker: MUSK

Decimals: 18

Token holders: 129,339

Transactions count: 227,187

Top 100 holders dominance: 84.02%

#### **Audit Details**



Project Name: MuskSwap

Language: Solidity

Compiler version: v.0.6.12

Blockchain: BSC



## **Social Profiles**

Project Website: muskswap.io

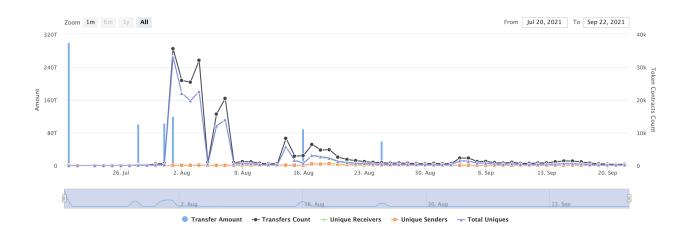
Project Twitter: @MUSKSWAPCHANNEL

Project Telegram: muskswap\_community

Project on CoinMarketCap:

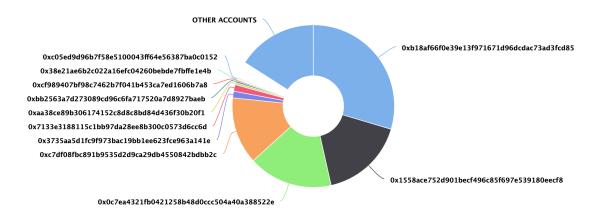
https://coinmarketcap.com/currencies/muskswap/

#### **Token Contract Overview**





## **MUSK Token Distribution**



# **MUSK Top 10 Holders**

Rank	Address	Quantity (Token)	Percentage
1	0xb18af66f0e39e13f971671d96dcdac73ad3fcd85	88,810,207,065,819.93198661501449175	29.6034%
2	₫ 0x1558ace752d901becf496c85f697e539180eecf8	50,641,159,053,096.390161847760906229	16.8804%
3	₫ 0x0c7ea4321fb0421258b48d0ccc504a40a388522e	50,437,153,667,377.665020951869575586	16.8124%
4	0xc7df08fbc891b9535d2d9ca29db4550842bdbb2c	40,000,000,923,908.876962946834974548	13.3333%
5	0x3735aa5d1fc9f973bac19bb1ee623fce963a141e	3,972,759,558,757.783312976155024181	1.3243%
6	0x7133e3188115c1bb97da28ee8b300c0573d6cc6d	3,950,531,838,666.684061054654175663	1.3168%
7	0xaa38ce89b306174152c8d8c8bd84d436f30b20f1	1,285,278,600,357.927427796459807278	0.4284%
8	0xbb2563a7d273089cd96c6fa717520a7d8927baeb	994,497,989,670.9999999999999	0.3315%
9	0xcf989407bf98c7462b7f041b453ca7ed1606b7a8	724,079,054,918.96531206958037646	0.2414%
10	0x38e21ae6b2c022a16efc04260bebde7fbffe1e4b	477,350,980,797.428638565297175744	0.1591%



#### **Contract Function Details**

- + MuskToken.sol
- [Pub] mintTo
- [Ext] permit
- [Ext] delegates
- [Ext] delegate
- [Ext] delegateBySig
- [Ext] getCurrentVotes
- [Ext] getPriorVotes
- [Int]\_delegate
- [Int]\_moveDelegates
- [Int] safe32
- [Int] getChainId
- [Int] \_writeCheckpoint

#### +BEP20Extended.sol

- [Pub] dev
- [Ext] getOwner
- [Pub] name
- [Pub] decimals
- [Pub] symbol
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transferBurnRate
- [Pub] enableFee
- [Pub] cap
- [Pub] transfer
- [Pub] allowance
- [Pub] approve
- [Pub] transferFrom
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Pub] mint
- [Pub] setSellContract
- [Pub] burn
- [Pub] setFee
- [Pub] setTransferBurnRate
- [Pub] addTransferBurnAddress
- [Pub] removeTransferBurnAddress
- [Int] \_transfer
- [Int] \_mint
- [Int] \_burn
- [Int] \_approve

#### **5** soken

- [Int] \_burnFrom
- + [Int] ISellToken.sol
- [Ext] receivedAmount
- + Ownable.sol
- [Pub] owner
- [Pub] renounceOwnership
- [Pub] transferOwnership
- [Pub] \_transferOwnership
- + Context.sol
- [Int] \_msgSender
- [Int] \_msgData
- + [Int] IBEP20.sol
- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [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
- [Int] min
- [Int] sqrt
- + Address.sol
- [Int] isContract
- [Int] sendValue
- [Int] functionCall
- [Int] functionCall
- [Int] functionCallWithValue



- [Int] functionCallWithValue
- [Int] functionStaticCall
- [Int] functionStaticCall
- [Int] functionDelegateCall
- [Int] functionDelegateCall
- [Int] \_verifyCallResult

(\$) = payable function # = non-constant function



# Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed



## **Security Issues**

#### 1) Owner privileges:

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behavior (for example, disable selling or mint new tokens).



### Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.





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