



CONTRACT WOLF

Blockchain Security - Smart Contract Audits

Security Assessment

March 09, 2022





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ContractWolf provides transparent report to all its "clients" and to its "clients participants" and will not claim any guarantee of bug-free code within it's **SMART CONTRACT**.

ContractWolf presence is to analyze, audit and assess the client's smart contract's code.

Each company or projects should be liable to its security flaws and functionalities.

Network

Binance Smart Chain (BEP20)

Website

<https://www.millionsafuu.com/>

Twitter

<https://twitter.com/MillionSAFUU>

Discord

<https://discord.gg/Nn5tHan2UR>

Telegram

<https://t.me/millionSAFUU>

Description

TBA

ContractWolf Engagement

9th of March 2022, **MillionSAFUU** engaged and agrees to audit their smart contract's code by ContractWolf. The goal of this engagement was to identify if there is a possibility of security flaws in the implementation of the contract or system.

ContractWolf will be focusing on contract issues and functionalities along with the projects claims from smart contract to their website, whitepaper and repository which has been provided by **MillionSAFUU**.

Logo



Contract link:

<https://bscscan.com/address/0xd66859a053b42f35c0159e6153f19a250e23666e>

Risk Level Classification

Risk Level represents the classification or the probability that a certain function or threat that can exploit vulnerability and have an impact within the system or contract.

Risk Level is computed based on CVSS Version 3.0

Level	Value	Vulnerability
Critical	9 - 10	An exposure that can affect the contract functions in several events that can risk and disrupt the contract
High	7 - 8.9	An exposure that can affect the outcome when using the contract that can serve as an opening in manipulating the contract in an unwanted manner
Medium	4 - 6.9	An opening that could affect the outcome in executing the contract in a specific situation
Low	0.1 - 3.9	An opening but doesn't have an impact on the functionality of the contract

Informational	0	An opening that consists of information's but will not risk or affect the contract
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Auditing Approach

Every line of code along with its functionalities will undergo manual review to check its security issues, quality, and contract scope of inheritance. The manual review will be done by our team that will document any issues that there were discovered.

Methodology

The auditing process follows a routine series of steps:

1. Code review that includes the following:

- Review of the specifications, sources, and instructions provided to ContractWolf to make sure we understand the size, scope, and functionality of the smart contract.
- Manual review of code, our team will have a process of reading the code line-by-line with the intention of identifying potential vulnerabilities and security flaws.

2. Testing and automated analysis that includes:

- Testing the smart contract functions with common test cases and scenarios, to ensure that it returns the expected results.

3. Best practices review, the team will review the contract with the aim to improve efficiency, effectiveness, clarifications, maintainability, security, and control within the smart contract.

4. Recommendations to help the project take steps to secure the smart contract.

Used Code from other Frameworks/Smart Contracts (Direct Imports)

Imported Packages

- SafeMathInt
- SafeMath
- IERC20
- IPancakeSwapPair
- IPancakeSwapRouter
- IPancakeSwapFactory
- Ownalbe
- ERC20Detailed

Description

Optimization enabled: Yes

Version: v0.7.6

Decimal: 5

Symbol: \$MillionSAFUU

Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	2	2	4	1

Exposed Functions

Version	Public	Private
1.0	11	0

Version	External	Internal
1.0	84	24

State Variables

Version	Total	Public
1.0	43	30

Capabilities

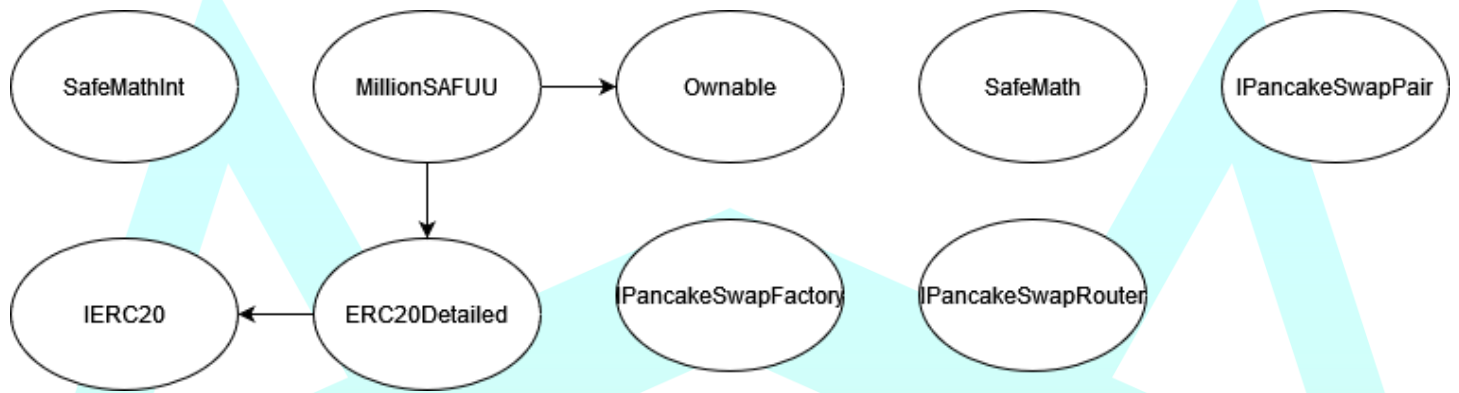
Version	Solidity Versions Observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	^0.7.6		Yes	Yes (1 block)	No

Scope of Work

MillionSAFUU's team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract.



Inheritance Graph



Verify Claims

Correct implementation of Token Standard

Tested	Verified
✓	✗

Function	Description	Exist	Tested	Verified
TotalSupply	Information about the total coin or token supply	✓	✓	✓
BalanceOf	Details on the account balance from a specified address	✓	✓	✓
Transfer	An action that transfers a specified amount of coin or token to a specified address	✓	✓	✓
TransferFrom	An action that transfers a specified amount of coin or token from a specified address	✓	✓	✓
Approve	Provides permission to withdraw specified number of coin or token from a specified address	✓	✓	✓

Optional implementation

Function	Description	Exist	Tested	Verified
renounceOwnership	Owner renounce ownership for more trust	✓	✓	✓

Deployer cannot mint any new tokens after deployment

Statement	Exist	Tested	Verified	File
Deployer can't mint	✓	✓	✓	Main
Deployer can't generate NFT	✓	✓	✓	Main

Max / Total supply: 325,000

Deployer cannot burn or lock user funds

Statement	Exist	Tested	Verified
Deployer cannot lock	✓	✓	✓
Deployer cannot burn	✓	✓	✓

Deployer cannot pause contract

Statement	Exist	Tested	Verified
Deployer cannot pause	✓	✓	✓

Overall Checkup (Smart Contract Security)

Tested	Verified
✓	✓

Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	X
Unverified / Not checked	🚩
Not Available	—

Write Functions of Contract

1. approve

2. decreaseAllowance

3. increaseAllowance

4. manualSync

5. renounceOwnership

6. setAutoAddLiquidity

7. setAutoRebase

8. setBotBlacklist

9. setFeeReceivers

10. setLP

11. setPairAddress

12. setWhitelist

13. transfer

14. transferFrom

15. transferOwnership

16. withdrawAllToTreasury

SWC Attacks

ID	Title	Relationships	Status
<u>SWC-136</u>	Unencrypted Private Data On-Chain	<u>CWE-767: Access to Critical Private Variable via Public Method</u>	PASSED
<u>SWC-135</u>	Code With No Effects	<u>CWE-1164: Irrelevant Code</u>	PASSED
<u>SWC-134</u>	Message call with hardcoded gas amount	<u>CWE-655: Improper Initialization</u>	NOT PASSED
<u>SWC-133</u>	Hash Collisions with Multiple Variable Length Arguments	<u>CWE-294: Authentication Bypass by Capture-replay</u>	PASSED
<u>SWC-132</u>	Unexpected Ether balance	<u>CWE-667: Improper Locking</u>	PASSED
<u>SWC-131</u>	Presence of unused variables	<u>CWE-1164: Irrelevant Code</u>	PASSED
<u>SWC-130</u>	Right-To Left Override control character (U+202E)	<u>CWE-451: User Interface (UI) Misrepresentation of Critical Information</u>	PASSED
<u>SWC-129</u>	Typographical Error	<u>CWE-480: Use of Incorrect Operator</u>	PASSED

<u>SWC-128</u>	DoS With Block Gas Limit	<u>CWE-400: Uncontrolled Resource Consumption</u>	NOT PASSED
<u>SWC-127</u>	Arbitrary Jump with Function Type Variable	<u>CWE-695: Use of Low-Level Functionality</u>	PASSED
<u>SWC-126</u>	Insufficient Gas Griefing	<u>CWE-691: Insufficient Control Flow Management</u>	NOT PASSED
<u>SWC-125</u>	Incorrect Inheritance Order	<u>CWE-696: Incorrect Behavior Order</u>	PASSED
<u>SWC-124</u>	Write to Arbitrary Storage Location	<u>CWE-123: Write-what-where Condition</u>	PASSED
<u>SWC-123</u>	Requirement Violation	<u>CWE-573: Improper Following of Specification by Caller</u>	PASSED
<u>SWC-122</u>	Lack of Proper Signature Verification	<u>CWE-345: Insufficient Verification of Data Authenticity</u>	PASSED
<u>SWC-121</u>	Missing Protection against Signature Replay Attacks	<u>CWE-347: Improper Verification of Cryptographic Signature</u>	PASSED
<u>SWC-120</u>	Weak Sources of Randomness from Chain Attributes	<u>CWE-330: Use of Insufficiently Random Values</u>	NOT PASSED
<u>SWC-119</u>	Shadowing State Variables	<u>CWE-710: Improper Adherence to Coding Standards</u>	PASSED
<u>SWC-118</u>	Incorrect Constructor	<u>CWE-665: Improper Initialization</u>	PASSED

	Name		
<u>SWC-117</u>	Signature Malleability	<u>CWE-347: Improper Verification of Cryptographic Signature</u>	PASSED
<u>SWC-116</u>	Timestamp Dependence	<u>CWE-829: Inclusion of Functionality from Untrusted Control Sphere</u>	NOT PASSED
<u>SWC-115</u>	Authorization through tx.origin	<u>CWE-477: Use of Obsolete Function</u>	PASSED
<u>SWC-114</u>	Transaction Order Dependence	<u>CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')</u>	PASSED
<u>SWC-113</u>	DoS with Failed Call	<u>CWE-703: Improper Check or Handling of Exceptional Conditions</u>	PASSED
<u>SWC-112</u>	Delegate call to Untrusted Callee	<u>CWE-829: Inclusion of Functionality from Untrusted Control Sphere</u>	PASSED
<u>SWC-111</u>	Use of Deprecated Solidity Functions	<u>CWE-477: Use of Obsolete Function</u>	PASSED
<u>SWC-110</u>	Assert Violation	<u>CWE-670: Always-Incorrect Control Flow Implementation</u>	PASSED
<u>SWC-109</u>	Uninitialized Storage Pointer	<u>CWE-824: Access of Uninitialized Pointer</u>	PASSED

<u>SWC-108</u>	State Variable Default Visibility	<u>CWE-710: Improper Adherence to Coding Standards</u>	PASSED
<u>SWC-107</u>	Reentrancy	<u>CWE-841: Improper Enforcement of Behavioral Workflow</u>	PASSED
<u>SWC-106</u>	Unprotected SELFDESTRUCT Instruction	<u>CWE-284: Improper Access Control</u>	PASSED
<u>SWC-105</u>	Unprotected Ether Withdrawal	<u>CWE-284: Improper Access Control</u>	PASSED
<u>SWC-104</u>	Unchecked Call Return Value	<u>CWE-252: Unchecked Return Value</u>	PASSED
<u>SWC-103</u>	Floating Pragma	<u>CWE-664: Improper Control of a Resource Through its Lifetime</u>	PASSED
<u>SWC-102</u>	Outdated Compiler Version	<u>CWE-937: Using Components with Known Vulnerabilities</u>	PASSED
<u>SWC-101</u>	Integer Overflow and Underflow	<u>CWE-682: Incorrect Calculation</u>	PASSED
<u>SWC-100</u>	Function Default Visibility	<u>CWE-710: Improper Adherence to Coding Standards</u>	PASSED

AUDIT PASSED

Critical Issues

No critical issues found

High Issues

No high issues found

Medium Issues

No medium issues found

Low Issues

No low issues found

Informational Issues

No informational issues found

Function Issues

No informational issues found

Audit Comments

Deployer cannot mint after initial deployment

Deployer cannot pause/lock the contract

Deployer cannot set max transaction limit

Deployer cannot burn tokens

Deployer can set and modify taxes/fees

Contract has a rebase variable

Read report for more information.