



RUGFREECOINS



SAFEREUM 2.0

Safereum 2.0 Token

RugfreeCoins Verified on October 12th, 2023

Overview

- ✓ No mint function found, the owner cannot mint tokens after initial deployment.
- ✓ The owner can't set a max transaction limit
- ✓ The owner can't pause trading once it's enabled
- ✓ The owner can't change fees.
- ✓ The owner can't blacklist wallets.
- ✓ The owner can't set a max wallet limit
- ✓ The owner can't claim the contract's balance of its own token.

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Audit details



Audited project

Safereum 2.0 Token



Contract Address

0x5098373B1d975E44C2bDa119e6688cf6A7e95C3c



Client contact

Safereum 2.0 Token Team



Blockchain

Ethereum



Project website

<https://safereum20.us/>

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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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

RugfreeCoins was commissioned by the **Safereum 2.0 Token Team** to perform an audit of the smart contract.

<https://etherscan.io/token/0x5098373b1d975e44c2bda119e6688cf6a7e95c3c#code>

This audit focuses on verifying 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, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.












Tokenomics

▲ 0% tax when buying & selling

Target market and the concept

- ▶ 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 in the Safereum 2.0 token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Safereum 2.0 Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Safereum 2.0 Token as the currency.

Potential to grow with score points

 Project efficiency	8 / 10
 Project uniqueness	7 / 10
 Information quality	8 / 10
 Service quality	8 / 10
 System quality	8 / 10
 Impact on the community	8 / 10
 Impact on the business	9 / 10
 Preparing for the future	9 / 10
 Smart contract security	10 / 10
 Smart contract functionality assessment	10 / 10
 Total Score	8.5 / 10

Contract details

Token contract details for 12th of October 2023
























Contract name	Safereum 2.0
Contract address	0x5098373B1d975E44C2bDa119e6688cf6A7e95C3c
Token supply	420,690,000,000,000
Token ticker	SAFEREUM2.0
Decimals	6
Token holders	1
Transaction count	1
Contract deployer address	0xB7aDf894AFb643cA507b6b04Cd34060E0f0e2309
Contract's current owner address	0xB7aDf894AFb643cA507b6b04Cd34060E0f0e2309






Contract code function details

Nº	Category	Item	Result
1	Coding conventions	ERC20 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 ▾
2	Function call audit	Overriding variables	PASS ▾
		Authorization of function call	PASS ▾
		Low level function (call/delegate call) security	PASS ▾
		Returned value security	PASS ▾
3	Business security & centralisation	Self destruct function security	PASS ▾
		Access control of owners	PASS ▾
		Business logics	PASS ▾
4	Integer overflow/underflow	Business implementation	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
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	_checkOwner	Internal 		
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
L	_transferOwnership	Internal 		
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 

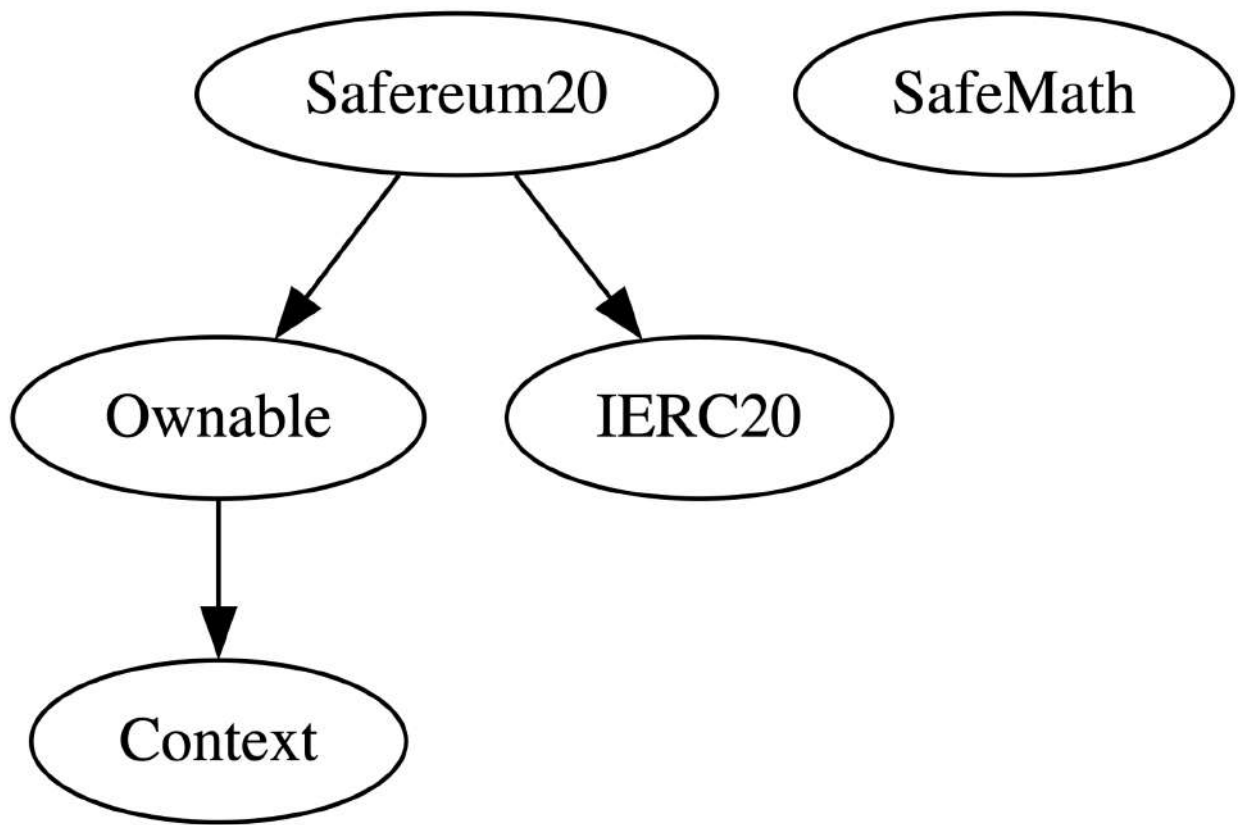
L	approve	External !		NO !
L	transferFrom	External !		NO !
SafeMath	Library			
L	tryAdd	Internal 		
L	trySub	Internal 		
L	tryMul	Internal 		
L	tryDiv	Internal 		
L	tryMod	Internal 		
L	add	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	sub	Internal 		
L	div	Internal 		
L	mod	Internal 		
Safereum20	Implementation	IERC20, Ownable		
L		Public !		Ownable
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	_approve	Internal 🔒	⛔	
L	_beforeTokenTransfer	Internal 🔒	⛔	

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

Owner privileges

In the audited smart contract, the ownership functions solely encompass OpenZeppelin's standard functionalities that are inherent to the ERC20 standard itself.

Audit conclusion

RugFreeCoins team has performed in-depth testing, 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:	PASS ▾
Smart contract Security Status:	PASS ▾
Number of risk issues:	0
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	0
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾