



RUGFREECOINS



SafeCum Token

RugfreeCoins Verified on October 11th, 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 must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.
- ✓ 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.

! HIGH SEVERITY ISSUES

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell. :
SAFU Developer is handling the contract

```
function enableTrading() external onlyOwner {  
    require(!tradingEnabled, "Trading is already enabled");  
    tradingEnabled = true;  
    startTradingBlock = block.number;  
}
```

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Audit details



Audited project
SafeCum Token



Contract Address
0x9C729Dbdd6b65f53110b870Acf17b70979408F61



Client contact
SafeCum Token Team



Blockchain
Ethereum



Project website
<https://safecum.vip/>

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 **SafeCum Token Team** to perform an audit of the smart contract.

<https://etherscan.io/address/0x9c729dbdd6b65f53110b870acf17b70979408f61#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 SafuCum token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of SafuCum Token.
- ▶ Anyone who's interested in making financial transactions with any other party using SafuCum Token as the currency.

Potential to grow with score points

 Project efficiency	8 / 10
 Project uniqueness	8 / 10
 Information quality	8 / 10
 Service quality	8 / 10
 System quality	8 / 10
 Impact on the community	9 / 10
 Impact on the business	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	10/ 10
 Smart contract functionality assessment	10 / 10
 Total Score	8.6/ 10

Contract details

Token contract details for 11th of October 2023

























Contract name	SafeCum
Contract address	0x9C729Dbdd6b65f53110b870Acf17b70979408F61
Token supply	10,000,000,
Token ticker	SCM
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0x6b27eB26B6B0851CF49CB1d1d15D80d89b27B985
Contract's current owner address	0x6b27eB26B6B0851CF49CB1d1d15D80d89b27B985

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	LOW ▾
		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 

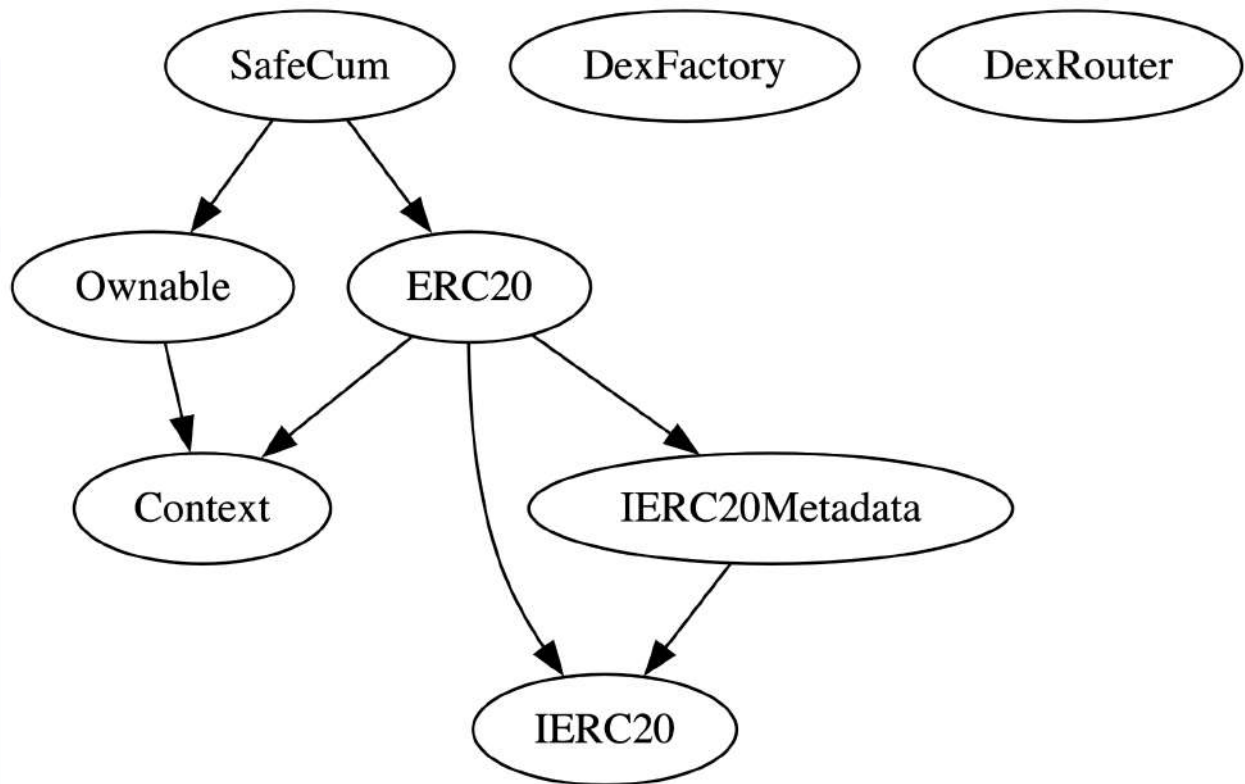
IERC20Meta data	Interface	IERC20		
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
ERC20	Implementation	Context, IERC20, IERC20 Metadata		
L		Public !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	totalSupply	Public !		NO !
L	balanceOf	Public !		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	_spendAllowance	Internal 		
L	_beforeTokenTransfer	Internal 		
L	_afterTokenTransfer	Internal 		
DexFactory	Interface			

L	createPair	External !		NO !
DexRouter	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidityETH	External !		NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
SafeCum	Implementation	ERC20, Ownable		
L		Public !		ERC20
L	enableTrading	External !		onlyOwner
L	setWhitelistStatus	External !		onlyOwner
L	checkWhitelist	External !		NO !
L	_transfer	Internal 		
L		External !		NO !

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

❖ High severity issues

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell. :

SAFU Developer is handling the contract

```
function enableTrading() external onlyOwner {  
    require(!tradingEnabled, "Trading is already enabled");  
    tradingEnabled = true;  
    startTradingBlock = block.number;  
}
```

❖ Medium severity issues

No medium severity issues found

❖ Low severity issues

startTradingBlock variable setting value but it is not used anywhere in the contract

```
uint256 public startTradingBlock;
```


Owner privileges

- ❖ The owner can enable trading, and once enabled can not disable it again



```
function enableTrading() external onlyOwner {  
    require(!tradingEnabled, "Trading is already enabled");  
    tradingEnabled = true;  
    startTradingBlock = block.number;  
}
```

- ❖ The owner can add or remove whitelisted wallets (who can do transactions before enabling trading)



```
function setWhitelistStatus(  
    address _wallet,  
    bool _status  
) external onlyOwner {  
    whitelisted[_wallet] = _status;  
    emit Whitelist(_wallet, _status);  
}
```

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:	SAFE (Handled by a SAFU developer) ▾
Number of risk issues:	1
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	2
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾