



Smart Contract Security Audit

TechRate July, 2021

Audit Details



Audited project

RedFeg



Deployer address

0x48FeB545d20c0ff8B1958879460bfD458425DCD4



Client contacts:

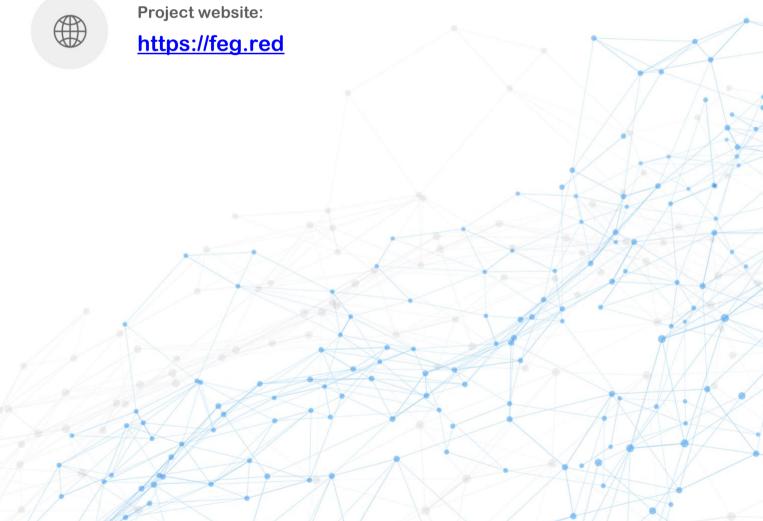
RedFeg team



Blockchain

Binance Smart Chain





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 below 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

TechRate was commissioned by RedFeg to perform an audit of smart contracts:

https://bscscan.com/address/0x25574cad6f03ffacd9d08b288e8d5d88997fb2f3#code

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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Contracts Details

Token contract details for 31.07.2021

Contract name	RedFeg
Contract address	0x25574Cad6F03FFacD9D08b288e8D5d88997fb2f3
Total supply	1,000,000,000,000,000
Token ticker	REDFEG 6
Decimals	9
Token holders	18,043
Transactions count	84,162
Top 100 holders dominance	64.22%
Contract deployer address	0x48FeB545d20c0ff8B1958879460bfD458425DCD4
Contract's current owner address	0x000000000000000000000000000000000000

RedFeg Token Distribution

The top 100 holders collectively own 64.22% (642,191,826,120,604,000.00 Tokens) of RedFeg



(A total of 642,191,826,120,604,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000,000.00 token)

RedFeg Contract Interaction Details

■ Transfer Amount -- Transfers Count -- Unique Receivers -- Unique Senders -- Total Uniques

RedFeg Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Burn Address	235,767,354,347,671,000.492986991	23.5767%
2		37,068,434,266,863,400.129699416	3.7068%
3	0x51a33b0ba05c2ca0290ca12adda9197a58b203cd	18,653,596,932,723,300.515552783	1.8654%
4	0xe9b725f0af6605cd9b5a458cc614b05e9cf9973d	15,068,286,198,352,300.46264959	1.5068%
5	0x54c5f8d206789c95392c0b6265e8ef5fc6746646	14,252,815,399,442,300.276378235	1.4253%
6	0x0580e66e36504f687caf227e33ac5d4984bda730	14,000,245,018,615,500.789623116	1.4000%
7	0x461d42a953a383757d725ae66ef30c3b40120808	14,000,012,398,083,800.870009316	1.4000%
8	0x06c8890f3806d19ec477a7d3a33e4e0e101f03aa	11,852,171,215,577,900.35803472	1.1852%
9	0x8435222dd6309fbdb2fecd0339646276597269a3	11,080,400,491,412,100.593439478	1.1080%
10	0xa9d656da31d7af3b5e5d40c08c163bb51417b41a	10,400,480,483,996,300.004909883	1.0400%



Contract functions details

+ Context - [Int] msgSender + [Int] IERC20 - [Ext] totalSupply - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + [Lib] SafeMath - [Int] add - [Int] sub - [Int] sub - [Int] mul - [Int] div - [Int] div + Ownable (Context) - [Pub] <Constructor># - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner + [Int] IUniswapV2Factory - [Ext] createPair# + [Int] IUniswapV2Router02 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens # - [Ext] factory - [Ext] WETH - [Ext] addLiquidityETH (\$) + RedFeg (Context, IERC20, Ownable) - [Pub] <Constructor># - [Pub] name - [Pub] symbol - [Pub] decimals - [Pub] totalSupply - [Pub] balanceOf - [Pub] transfer # - [Pub] allowance - [Pub] approve # - [Pub] transferFrom # - [Ext] setCooldownEnabled # - modifiers: onlyOwner - [Prv] tokenFromReflection - [Prv] removeAllFee # - [Prv] restoreAllFee #

- [Prv] approve #

- [Prv] _transfer #
- [Prv] swapTokensForEth #
 - modifiers: lockTheSwap
- [Prv] sendETHToFee #
- [Ext] openTrading #
 - modifiers: onlyOwner
- [Pub] setBots #
 - modifiers: onlyOwner
- [Pub] delBot#
 - modifiers: onlyOwner
- [Prv] _tokenTransfer #
- [Prv] transferStandard #
- [Prv] _takeTeam #
- [Prv] _reflectFee #
- [Ext] <Fallback> (\$)
- [Ext] manualswap #
- [Ext] manualsend #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Ext] setMaxTxPercent #
 - modifiers: onlyOwner
- (\$) = payable function
- # = non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Passed
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security 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 period when the owner is not renounced)

- Owner can enable cooldown(user to user trading with time offset).
- Owner can change the maximum transaction amount.
- Owner can add and remove bots(no transferring between this addresses).
- Fee address can withdraw half of the contract balance to fee address another half to marketing address.

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team: https://app.unicrypt.network/amm/pancakev2/pair/0x8cada67a6c937116242a7ae49ae0acbcc4a425cb

Ownership renounce details provided by the team: https://bscscan.com/tx/0xbff33fef05559b2a6b550d8546d0e84b3a46 f9c3e4d58563f8a60634fa58e99b

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

