



# Audit Report

## **Fire Flame Inu**

December 2021

Type       BEP20

Address     0x7fA6f63B11CC1af508cD19Ba823853d6aaCd9d65

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## Contract Review

<b>Contract Name</b>	CoinToken
<b>Compiler Version</b>	v0.8.4+commit.c7e474f2
<b>Optimization</b>	200 runs
<b>Licence</b>	NONE
<b>Explorer</b>	<a href="https://bscscan.com/token/0x7fa6f63b11cc1af508cd19ba823853d6aacd9d65">https://bscscan.com/token/0x7fa6f63b11cc1af508cd19ba823853d6aacd9d65</a>
<b>Symbol</b>	FIRE
<b>Decimals</b>	9
<b>Total Supply</b>	1,000,000,000,000,000,000
<b>Website</b>	<a href="https://fireflameinu.org/">https://fireflameinu.org/</a>

## Audit Updates

<b>Initial Audit</b>	20th of December 2021
<b>Corrected</b>	

# Contract Analysis

● Critical
 ● Medium
 ● Pass

Severity	Code	Description
<span style="color: blue;">●</span>	MT	Contract Owner is not able to mint new tokens
<span style="color: blue;">●</span>	BT	Contract Owner is not able to burn tokens from specific wallet
<span style="color: red;">●</span>	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
<span style="color: red;">●</span>	ST	Contract Owner is not able to pause transactions for everyone else except him
<span style="color: blue;">●</span>	OCTD	Contract Owner is not able to transfer tokens from specific address
<span style="color: blue;">●</span>	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
<span style="color: blue;">●</span>	BC	Contract Owner is not able to blacklist wallets from selling

## ELFM - Exceed Limit Fees Manipulation

<b>Criticality</b>	high
<b>Location</b>	<a href="https://bscscan.com/address/0x7fA6f63B11CC1af508cD19Ba823853d6aaCd9d65#code#L643,L647,L639">https://bscscan.com/address/0x7fA6f63B11CC1af508cD19Ba823853d6aaCd9d65#code#L643,L647,L639</a>

### Description

The contract owner has the authority to increase fees to any value without limitations. The owner may take advantage of it by calling the `setDevFeePercent` function with a high percentage value.

```
function setDevFeePercent(uint256 devFee) external onlyOwner() {  
    _devFee = devFee;  
}
```

### Recommendation

The contract should have a check to not let total fees increase more than 25%.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

## ST - Stop Transactions

<b>Criticality</b>	high
<b>Location</b>	<a href="https://bscscan.com/address/0x7fA6f63B11CC1af508cD19Ba823853d6aaCd9d65#code#L1015">https://bscscan.com/address/0x7fA6f63B11CC1af508cD19Ba823853d6aaCd9d65#code#L1015</a>

### Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by setting the `_maxTxAmount` to a very small value and interrupt everyone else from trading apart from himself.

```
if(from != owner() && to != owner())  
    require(amount <= _maxTxAmount, "Transfer amount exceeds the  
maxTxAmount.");
```

### Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

# Contract Diagnostics

Pass	Name
✓	Integer Underflow
✓	Parity Multisig Bug
✓	Callstack Depth Attack
✓	Transaction-Ordering Dependency
✓	Timestamp Dependency
✓	Re-Entrancy

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		



	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	

	functionCallWithValue	Internal	✓	
	functionStaticCall	Internal		
	functionStaticCall	Internal		
	functionDelegateCall	Internal	✓	
	functionDelegateCall	Internal	✓	
	_verifyCallResult	Private		
Ownable	Implementation	Context		
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-

	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-

	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Router01	Interface			
	factory	External		-

	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-

IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
CoinToken	Implementation	Context, IERC20, Ownable		
		Public	Payable	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-

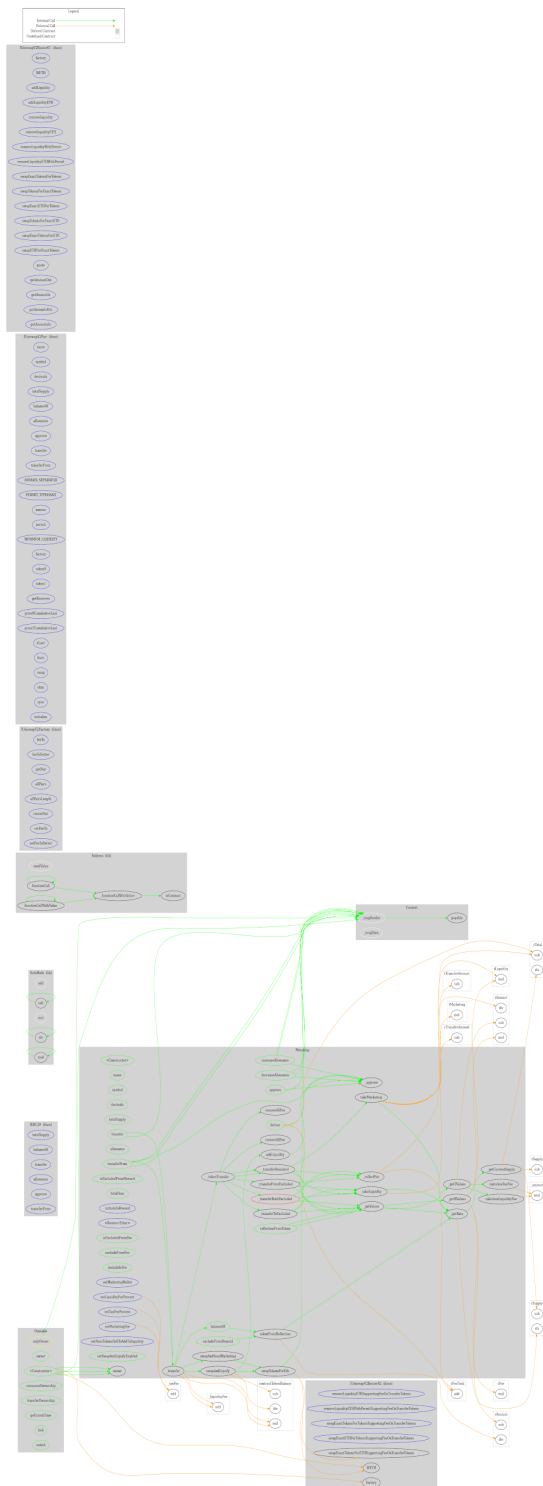
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	isExcludedFromReward	Public		-
	totalFees	Public		-
	deliver	Public	✓	-
	reflectionFromToken	Public		-
	tokenFromReflection	Public		-
	excludeFromReward	Public	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	_transferBothExcluded	Private	✓	
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	setTaxFeePercent	External	✓	onlyOwner
	setDevFeePercent	External	✓	onlyOwner

	setLiquidityFeePercent	External	✓	onlyOwner
	setMaxTxPercent	Public	✓	onlyOwner
	setDevWalletAddress	Public	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner
		External	Payable	-
	_reflectFee	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_takeLiquidity	Private	✓	
	_takeDev	Private	✓	
	calculateTaxFee	Private		
	calculateDevFee	Private		
	calculateLiquidityFee	Private		
	removeAllFee	Private	✓	



	restoreAllFee	Private	✓	
	isExcludedFromFee	Public		-
	_approve	Private	✓	
	_transfer	Private	✓	
	swapAndLiquify	Private	✓	lockThe Swap
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	setRouterAddress	External	✓	onlyOwner
	setNumTokensSellToAddToLiquidity	External	✓	onlyOwner

# Contract Flow



## Domain Info

<b>Domain Name</b>	FIREFLAMEINU.ORG
<b>Registry Domain ID</b>	D402200000018270614-LROR
<b>Registrar WHOIS Server</b>	whois.godaddy.com
<b>Registrar URL</b>	http://www.godaddy.com
<b>Updated Date</b>	2021-11-07T20:20:19Z
<b>Creation Date</b>	2021-11-07T20:20:18Z
<b>Registry Expiry Date</b>	2022-11-07T20:20:18Z
<b>Registrar</b>	GoDaddy.com, LLC
<b>Registrar IANA ID</b>	146

The domain has been created almost one month before the analysis of the audit. It is set for expiration in one year.

There is no public billing information, the creator is protected by the privacy settings.

## Summary

FireFlame Inu is a deflationary token on the Binance Smart Chain targeted towards artists of all types, Including content creators, musicians, gamers and streamers. The token has a friendly and growing community. There are some functions that can be abused by the owner, like manipulating fees without limitations and stopping transactions for everyone else except the owner. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

## Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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## About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>