



# SMART CONTRACT SECURITY AUDIT

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WATCHTOWER

# DISCLAIMER

Watchtower has completed this report to provide a summary of the Smart Contract functions, and any security, dependency or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as at the date of this report. In order to understand the full scope of our analysis, it is vital for you to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against Watchtower or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your own independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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## ABOUT THE AUDITOR:

Watchtower is an Anti-Scam Token Utility which reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity.

Watchtowers Development Team consists of a number of Smart Contract creators, Auditors Developers and Blockchain experts.

Watchtowers Website Scanner reviews a number of Risk factors to provide an adequate Risk summary of token projects.

In Addition to this the team also helps with Creation of Smart Contracts for legitimate projects, Audits and Promotion.





# OVERVIEW

**Watchtower was commissioned by Coinflect to complete a Smart Contract audit.**

**The objective of the Audit is to achieve the following:**

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

**DISCLAIMER:** This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, All investments are made at your own risk.

(<https://www.cryptowatchtower.io/>)



# SMART CONTRACT REVIEW



Contract Created on the 11th November 2021 : `pragma solidity ^0.7.3;`

Contract name	Coinflect
Contract address	0x04305e84400F70B778868FD5226A6135D8Fe151D
Total supply	42,000,000,000
Token ticker	CFLT
Decimals	18
Token holders	Not Launched
Transactions count	1
Top 5 holders dominance	Not Launched
Tax fee	14%
Total fees	14% ~ BUY / SELL
Contract deployer address	0xC627D743B1BfF30f853AE218396e6d47a4f34ceA
Contract current owner address	0xb4C33a1dcd1ed1cC9B68D19B27e5bf052C04902d



# Project Overview

## Project Details: (Website: <https://www.coinflect.com/#sec-64b3>)

Coinflect will offer a trusted platform where developers and investors can connect. The Binance Smart Chain is Coinflect's first choice to launch its DeFi company.

DeFi users want the ability to move assets from one chain to another and a dApp that can switch chains interchangeably. It is important more than ever for independent blockchains to communicate and share data with one another. Cross-chain bridging solves this need and Coinflect is built to execute its dApp across more than one blockchain. This means investors will be able to transfer the native token across multiple chains and diversify their token holdings through its staking pools.

As your trusted one stop solution for DeFi staking, Coinflect plans to accomplish this by using the liquidity aggregation, chain emulation and sound business management.

## Tokenomics:

Starting Supply: 42,000,000,000 (42 Billion)

### 14% Tax for Buys and Sells comprising of:

10% Operations

4% Liquidity

## Team Review:

Watchtower reviewed a number of factors including the teams background and Cryptocurrency experience, social media interaction and availability, project momentum, token risks and community trust score.

The team have expert Cryptocurrency knowledge and are looking at building a cross-chain platform for staking. The Team have a number of developers constantly working on the Platform, Website and active on social platforms.

## KYC/DOXXED:

The Coinflect team has completed a KYC with Watchtower. The team has been identified and records have been retained.



# CONTRACT FUNCTIONS DETAILS

## Functions (Public)

This contract has 34 available public functions which the owner can call.

These functions were identified to be safe and can be viewed on BSC Scan or through a DAPP.

### LINK:

<https://bscscan.com/address/0x04305e84400F70B778868FD5226A6135D8Fe151D#writeContract>

### Function risks:

Contract functions are limited and No Scam Functions have been Identified!



# Contract Stress Test

## Imported Libraries / Interfaces

- Context
- IERC20
- SafeMath
- ERC20
- Address
- SafeERC20
- Ownable
- EnumerableSet
- IUniswapV2Factory
- IUniswapV2Router01
- IUniswapV2Router02
- IUniswapPair
- IPinkAntiBot

## Overview

1. ADDITION OF COMMENTS:	8
2. CALL STACK DEPTH ATTACK:	10
3. TIME STAMP DEPENDENCY:	10
4. PARTY MULTISIG BUG:	10
5. USE OF LIBRARIES/DEPENDENCIES (FROM TRUSTED SOURCES):	10
a. TRANSACTION-ORDERING DEPENDENCY:	10
6. ACCESS CONTROL AND AUTHORIZATION:	10
7. REENTRANCY ATTACKS:	10
8. ERC/BEP STANDARD VIOLATIONS:	10
9. USAGE OF VISIBILITY LEVELS:	10



# 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



Issue description	Checking status
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



## High Severity Issues

Nil



## Medium Severity Issues

### Gas Efficiency:

- `_transfer()` updates always the pair value, calling the `getPair()` method of the dex factory. This is an useless operation and represent a waste of gas. The pair could be easily updated in a separate function.
- `_isTrading()` updates always the pair value, calling the `getPair()` method of the dex factory. This is an useless operation and represent a waste of gas. The pair could be easily updated in a separate function.



## Low Severity Issues

**Wrong Code:** (is bypassed by another sell code)

```
if (_sender == pair && _recipient != unirouter) return true; // Sell Case
```

If `_sender == pair`, the transaction represents a buy not a sell

**Wrong Code:**

- // Ignore tax process in case that remove liquidity
- if (!startedSale || (\_sender == pair && \_recipient == unirouter) || \_sender == unirouter)
- The router will never be the sender or recipient. The tokens pass through the pair only



# CONCLUSION



**Watchtower reviewed Coinflects' deployed and verified contract to conduct this audit.**

**Watchtower is satisfied that the contract has no malicious coding and that no severe issues have been found.**

**The team is using Pinksale Finance to launch their token and pre-sale. Pinksale have been verified to focus on Safe launches with Anti-sniper functions and a fair token distribution criteria.**

## ***Watchtower Disclaimer:***

*Please check the disclaimer page and note, this Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or in any way provide financial advice, please do your own research. By reading this report you accept and agree to the disclaimer and understand investments are made at your own risk.*

*(<https://www.cryptowatchtower.io/>)*

## **Contact Us**

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