



Presents

CASHCOW

Smart Contract Security Audit

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.

Purpose:

ApeAudits received the Cashcow team application for smart contract security of the Cashcow token on June 15th of 2021. The following are the details and results of this smart contract security audit: This document details ApeAudits' findings and recommended solutions.

Token Name	Cashcow
Token Symbol	Cashcow
Contract Address	0x5967855eaAf8AdB95795DB2d925Ea4562b09FD61
Etherscan Link	https://bscscan.com/token/0x5967855eaaf8adb95795db2d925ea4562b09fd61
Liquidity Lock Transaction	https://bscscan.com/tx/0x0d196866734394a0d9383917fcef477e93b0f47d669f384aacd85f05e7cd8c7b
Ownership Renounce Transaction	https://bscscan.com/tx/0x52a648a3686dc3894670764de782fd9fb003386b818b105827c1d1b70999b566

The Audit CheckList and Results:

NO.	Audit Items	Audit Subclass	Audit Subclass Result
1	Overflow Audit.	N/A	Passed
2	Race Conditions Audit	N/A	Passed
3	Authority Control Audit	Permission Vulnerability Audit Excessive Auditing Authority	Passed Passed
4	Safe Design Audit	Zeppelin Module Safe Compiler Version Hard-Coded Version Fallback Function Safeuse Show Coding Security Function Return Value Security Call Function Security.	Passed Passed Passed Passed Passed Passed
5	Denial of Service Audit	N/A	Passed
6	Gas Optimization Audit	N/A	Passed
7	Design Logic Audit	N/A	Passed
8	Malicious Event Log Audit	N/A	Passed
9	“False Deposit” Vulnerability Audit	N/A	Passed
10	Uninitialized Storage Pointers Audit	N/A	Passed
11	Arithmetic Accuracy Deviation Audit	N/A	Passed

Audit Result: Passed

Audit Date: June 15th of 2021

Smart Contract Function Details

+ Contract Context

- From Context
 - _msgData() (internal)
 - _msgSender() (internal)

+ Contract IERC20

- From IERC20
 - allowance(address,address) (external)
 - approve(address,uint256) (external)
 - balanceOf(address) (external)
 - totalSupply() (external)
 - transfer(address,uint256) (external)
 - transferFrom(address,address,uint256) (external)

+ Contract SafeMath (Most derived contract)

- From SafeMath
 - add(uint256,uint256) (internal)
 - div(uint256,uint256) (internal)
 - div(uint256,uint256,string) (internal)
 - mod(uint256,uint256) (internal)
 - mod(uint256,uint256,string) (internal)
 - mul(uint256,uint256) (internal)
 - sub(uint256,uint256) (internal)
 - sub(uint256,uint256,string) (internal)

+ Contract Address (Most derived contract)

- From Address
 - _functionCallWithValue(address,bytes,uint256,string) (private)
 - functionCall(address,bytes) (internal)
 - functionCall(address,bytes,string) (internal)
 - functionCallWithValue(address,bytes,uint256) (internal)
 - functionCallWithValue(address,bytes,uint256,string) (internal)
 - isContract(address) (internal)
 - sendValue(address,uint256) (internal)

+ Contract Ownable

- From Context
 - _msgData() (internal)
 - _msgSender() (internal)
- From Ownable
 - constructor() (internal)
 - owner() (public)
 - renounceOwnership() (public)
 - transferOwnership(address) (public)

+ Contract CASHCOW (Most derived contract)

- From Ownable
 - owner() (public)
 - renounceOwnership() (public)
 - transferOwnership(address) (public)
- From Context
 - _msgData() (internal)
 - _msgSender() (internal)

- From CASHCOW
 - _approve(address,address,uint256) (private)
 - _getCurrentSupply() (private)
 - _getRValues(uint256,uint256,uint256) (private)
 - _getRate() (private)
 - _getTValues(uint256) (private)
 - _getValues(uint256) (private)
 - _reflectFee(uint256,uint256) (private)
 - _transfer(address,address,uint256) (private)
 - _transferBothExcluded(address,address,uint256) (private)
 - _transferFromExcluded(address,address,uint256) (private)
 - _transferStandard(address,address,uint256) (private)
 - _transferToExcluded(address,address,uint256) (private)
 - allowance(address,address) (public)
 - approve(address,uint256) (public)
 - balanceOf(address) (public)
 - constructor() (public)
 - currentDelayTime() (public)
 - decimals() (public)
 - decreaseAllowance(address,uint256) (public)
 - excludeAccount(address) (external)
 - includeAccount(address) (external)
 - increaseAllowance(address,uint256) (public)
 - isDelay() (public)
 - isExcluded(address) (public)
 - isRouter(address) (public)
 - name() (public)
 - reflect(uint256) (public)
 - reflectionFromToken(uint256,bool) (public)

- setBot(address) (external)
- setDelayTime(uint16) (public)
- setRouter(address) (public)
- switchDelay() (public)
- symbol() (public)
- tokenFromReflection(uint256) (public)
- totalFees() (public)
- totalSupply() (public)
- transfer(address,uint256) (public)
- transferFrom(address,address,uint256) (public)

Cashcow.sol

High Severity Issues:

None Found.

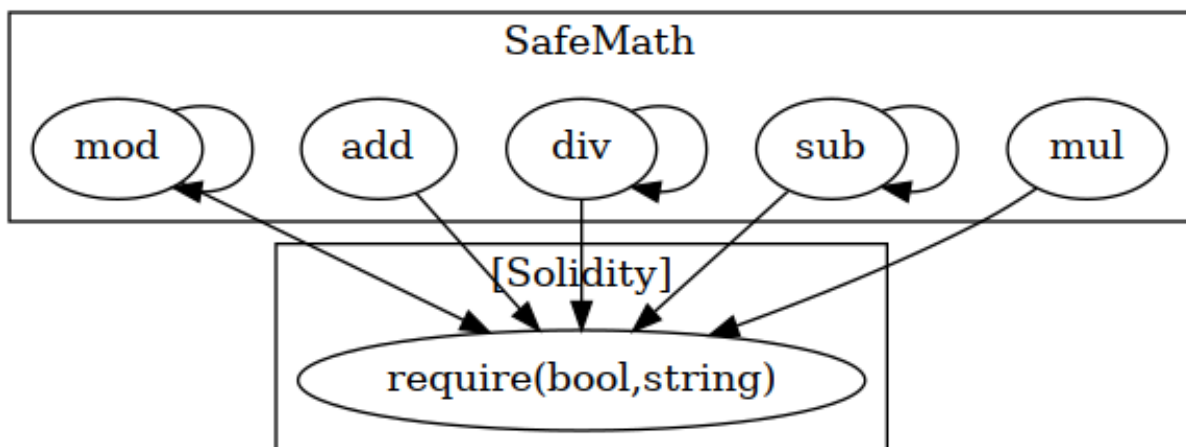
Medium Severity Issues:

None Found.

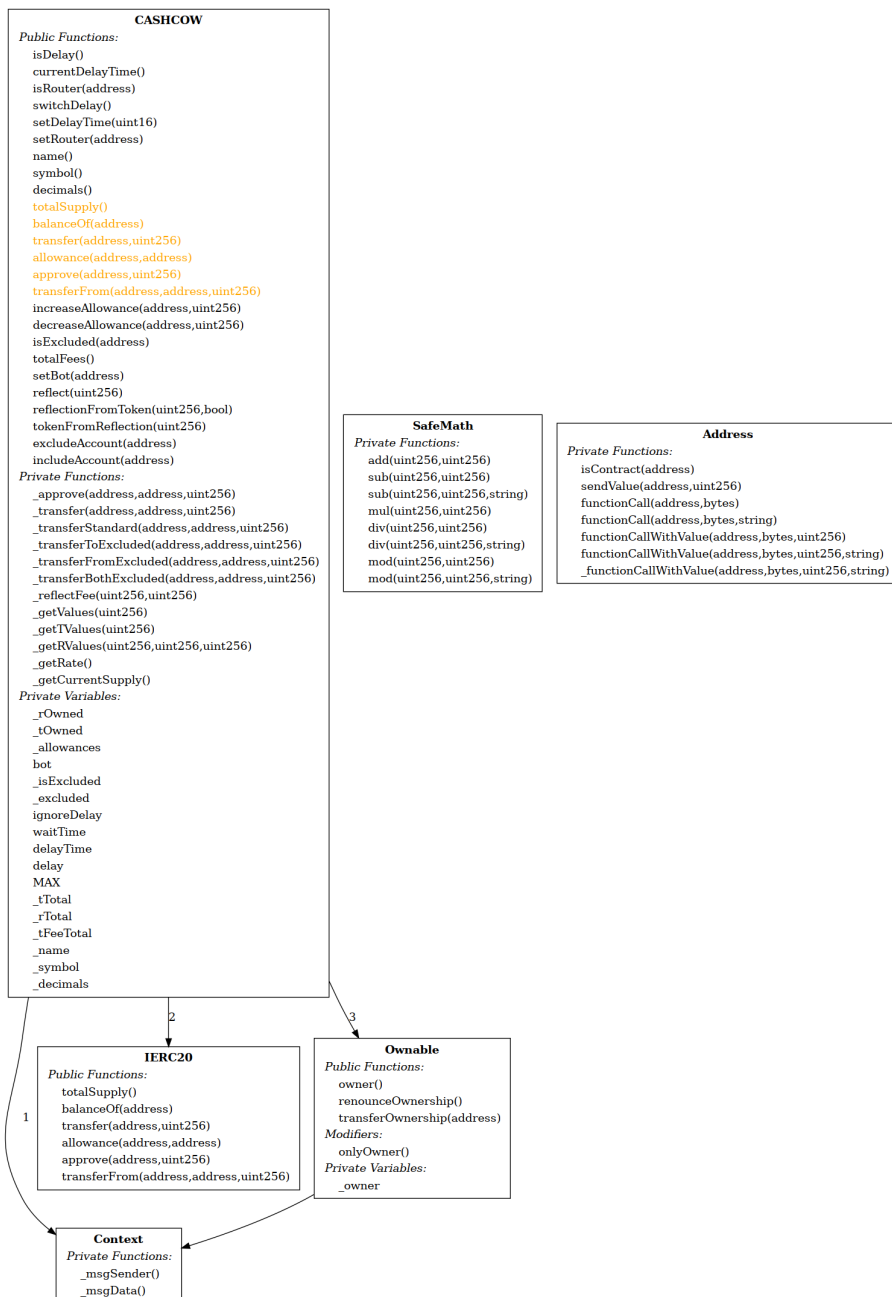
Low Severity Issues:

None Found:

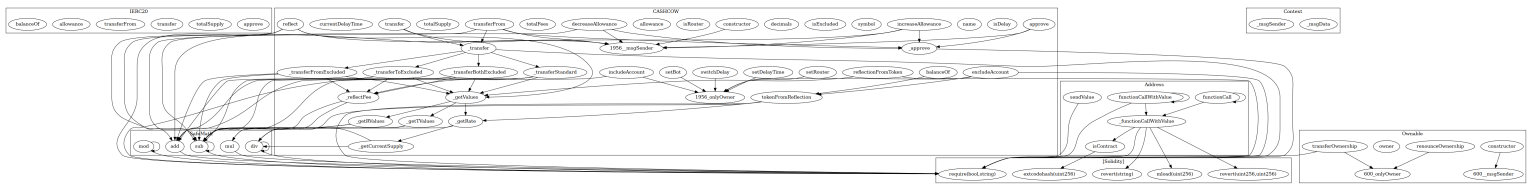
CashCow.sol.SafeMath



Cashcow.sol.inheritance



Cashcow.sol.graph



Conclusion:

Smart Contract contain low severity issues. No medium and high severity issues were detected. LP locking details not provided by team.

Ape Auditor's Remider:

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