

# Smart Contract Audit

**FOR** 

Big Coin

**DATED: 06 June 24'** 



### **AUDIT SUMMARY**

Project name - Big Coin

**Date: 06** June, 2024

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status: PASSED** 

#### **Issues Found**

| Status       | Critical | High | Medium | Low | Suggestion |
|--------------|----------|------|--------|-----|------------|
| Open         | 0        | 0    | 0      | 0   | 1          |
| Acknowledged | 0        | 0    | 0      | 0   | 0          |
| Resolved     | 0        | 0    | 0      | 0   | 0          |



### **USED TOOLS**

### Tools:

#### 1- Manual Review:

A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

#### 3- Slither:

The code has undergone static analysis using Slither.

#### **Testnet version:**

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0x41edf1bdAA3EC70cD8E8a25f76b3F5a9A7284D9B#code



# **Token Information**

#### **Token Address:**

0x78e24521D5782c1158bcF187987fB39576d8B4c7

Name: Big Coin

Symbol: BCX

Decimals: 18

Network: BscScan

Token Type: BEP-20

Owner: 0x3c774547e4d616CC74558E887398Ec978A13918b

Deployer:

0xfBE08A67bcFd05d62aE44C71A8266C5146C4Ab4b

**Token Supply: 50000000** 

Checksum: Ae1c3a4fbb6e83e8393a57617b5a5b321

**Testnet:** 

https://testnet.bscscan.com/address/0x41edf1bdAA3EC70cD8

E8a25f76b3F5a9A7284D9B#code



# **TOKEN OVERVIEW**

| Buy Fee: 0-0%        |  |
|----------------------|--|
| Sell Fee: 0-0%       |  |
| Transfer Fee: 0-0%   |  |
| Fee Privilege: Owner |  |
| Ownership: Owned     |  |
| Minting: No          |  |
| Max Tx: No           |  |
| Blacklist: No        |  |



### **AUDIT METHODOLOGY**

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.

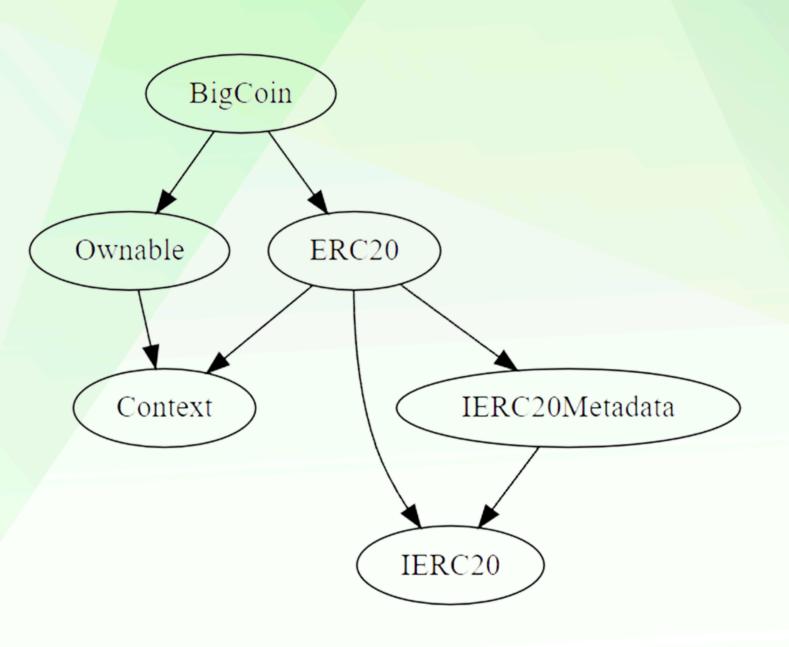


### **VULNERABILITY CHECKLIST**





### **INHERITANCE TREE**





### POINTS TO NOTE

- The owner can transfer ownership.
- The owner can renounce the ownership.
- The owner can mint tokens not more than the max supply.



### STATIC ANALYSIS

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



## **FUNCTIONAL TESTING**

#### 1- Approve (passed):

https://testnet.bscscan.com/tx/0xa87370fd31cda2ce03cc7fe0b944fac992d 9a38f3493d07871c7df01b8aed5c9

#### 2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x1bd4473f7751e829c17788459e22dec4bd3 d69e63cba14bea222e7159b7b0025

#### 3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0xe00b6d6c14fc94fa5beaeec8c7501b5bddf4d8c840f1c595807f8951c8ab7828

#### 4- Mint (passed):

https://testnet.bscscan.com/tx/0x8ecaa178f09be2d818167c111dde0cb0ea53a2cae97a583e35ebd6b743bcf57c



### **CLASSIFICATION OF RISK**

### Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization
  /Suggestion

### **Description**

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

A vulnerability that has an informational character but is not affecting any of the code.

### **Findings**

| Severity   | Found |
|--|-------|
| <b>♦</b> Critical  | 0     |
| ♦ High-Risk  | 0     |
| ◆ Medium-Risk  | 0     |
| ◆ Low-Risk   | 0     |
| <ul><li>Gas Optimization /</li><li>Suggestions</li></ul> | 1     |



### MANUAL TESTING

#### **Optimization**

**Severity: Optimization** 

Subject: Remove unused code.

Status: Open

#### Overview:

Unused variables are allowed in Solidity, and they do. not pose a
direct security issue. It is the best practice though to avoid them.
function \_msgData() internal view virtual returns (bytes calldata) {
 return msg.data;
}



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