# BLOCK AUDIT REPORT

## Smart Contract Security Audit Report

AMMYI

Block Audit Report Team received the AMMYI COIN team's application for smart contract security audit of the AMMYI COIN Token on August 21, 2021. The following are the details and results of this smart contract security audit:

Name: AMMYI COIN

The Contract address: 0x1eF72a1DF5e4d165F84fc43B20D56cAA7DaD46e1

Link Address:
https://bscscan.com/address/0x1eF72a1DF5e4d165F84fc43B20D56cAA7DaD46e1#code

The audit items and results:
(Other unknown security vulnerabilities are not included in the audit responsibility scope)

## Audit Result: Passed

Audit Number: BAR008221082021

Audit Date: August 21, 2021

Audit Team: Block Audit Report Team

# Table of Content

# Introduction

This Audit Report mainly focuses on the overall security of AMMYI COIN Smart Contract. With this report, we have tried to ensure the reliability and correctness of their smart contract by complete and rigorous assessment of their system's architecture and the smart contract codebase.

## Auditing Approach and Methodologies applied

The Block Audit Report team has performed rigorous testing of the project starting with analyzing the code design patterns in which we reviewed the smart contract architecture to ensure it is structured and safe use of third-party smart contracts and libraries.

Our team then performed a formal line by line inspection of the Smart Contract to find any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

In the Unit testing Phase, we coded/conducted custom unit tests written for each function in the contract to verify that each function works as expected.

In Automated Testing, we tested the Smart Contract with our in-house developed tools to identify vulnerabilities and security flaws.

The code was tested in collaboration of our multiple team members and this included -

- Testing the functionality of the Smart Contract to determine proper logic has been followed throughout the whole process.
- Analyzing the complexity of the code in depth and detailed, manual review of the code, line-by-line.
- Deploying the code on testnet using multiple clients to run live tests.
- Analyzing failure preparations to check how the Smart Contract performs in case of any bugs and vulnerabilities.
- Checking whether all the libraries used in the code are on the latest version.
- Analyzing the security of the on-chain data.

## Audit Details

Project Name: AMMYI COIN
Website/ Bscscan Code (Mainnet):
0x1eF72a1DF5e4d165F84fc43B20D56cAA7DaD46e1
Languages: Solidity (Smart contract)

Platforms and Tools: Remix IDE, Truffle, Truffle Team, Ganache, Solhint, VScode, Mythril, Contract Library, Slither

# Audit Goals

The focus of the audit was to verify that the Smart Contract System is secure, resilient and working according to the specifications. The audit activities can be grouped in the following three categories:

## Security

Identifying security related issues within each contract and the system of contract.

## Sound Architecture

Evaluation of the architecture of this system through the lens of established smart contract best practices and general software best practices.

## Code Correctness and Quality

A full review of the contract source code. The primary areas of focus include:

- Accuracy
- Readability
- Sections of code with high complexity
- Quantity and quality of test coverage

# Issue Categories

Every issue in this report was assigned a severity level from the following:

## High level severity issues

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium level severity issues

1. Issues on this level could potentially bring problems and should eventually be fixed.

## Low level severity issues

Issues on this level are minor details and warningJs that can remain unfixed but would be better fixed at some point in the future.

# Issues Checking Status

| № | Issue description. | Checking status |
|---|---|---|
| 1 | Compiler warnings. | 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. | 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 Zeppelin module. | Passed |
| 21 | Fallback function security. | Passed |

# Functions Outline

- msgSender()
- msgData()

+ interface IERC20

- totalSupply()
- balanceOf(address account)
- transfer(address recipient, ...
- allowance(address owner, add ...
- approve(address spender, uin ...
- transferFrom(address sender, ...

+ library SafeMath

- add(uint256 a, uint256 b)
- sub(uint256 a, uint256 b)
- sub(uint256 a, uint256 b, st ...
- mul(uint256 a, uint256 b)
- div(uint256 a, uint256 b)
- div(uint256 a, uint256 b, st ...
- mod(uint256 a, uint256 b)
- mod(uint256 a, uint256 b, st ...

+ library Address

- isContract(address account)
- sendValue(address payable re ...
- Call(address target, ...
- Call(address target, ...
- CallWithValue(addres ...
- CallWithValue(addres ...
- CallWithValue(addre ...

+ contract ERC20 is Context, IERC20

- name()
- symbol()
- decimals()
- totalSupply()
- balanceOf(address account)

- transfer(address recipient, ...
- allowance(address owner, add ...
- approve(address spender, uin ...
- transferFrom(address sender, ...
- increaseAllowance(address sp ...
- decreaseAllowance(address sp ...
- transfer(address sender, ad ...
- mint(address account, uint2 ...
- burn(address account, uint2 ...
- approve(address owner, addr ...
- setupDecimals(uint8 decimal ...
- beforeTokenTransfer(address ...

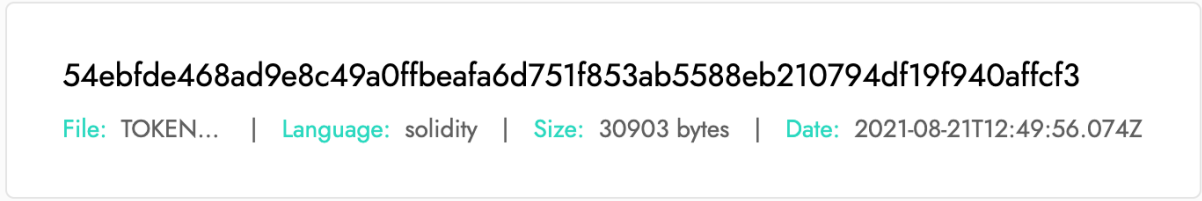
+ library SafeERC20

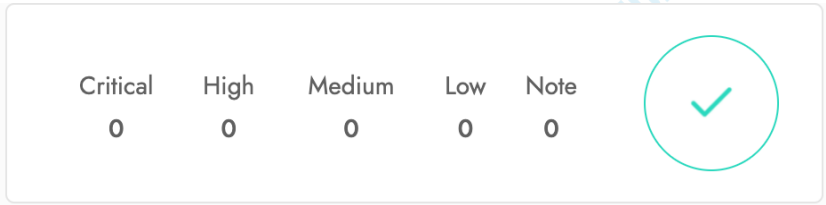
- safeTransfer(IERC20 token, a ...
- safeTransferFrom(IERC20 toke ...
- safeApprove(IERC20 token, ad ...
- safeIncreaseAllowance(IERC20 ...
- safeDecreaseAllowance(IERC20 ...
- callOptionalReturn(IERC20 t ...

contract Token is ERC20 *

## Manual Audit:

For this section the code was tested/read line by line by our developers. We also used Remix IDE's JavaScript VM and Kovan networks to test the contract functionality.




## Critical Severity Issues

No critical severity issues found.

## High Severity Issues

No high severity issues found.

## Medium Severity Issues

No medium severity issues found.

## Low Severity Issues

No low severity issues found.

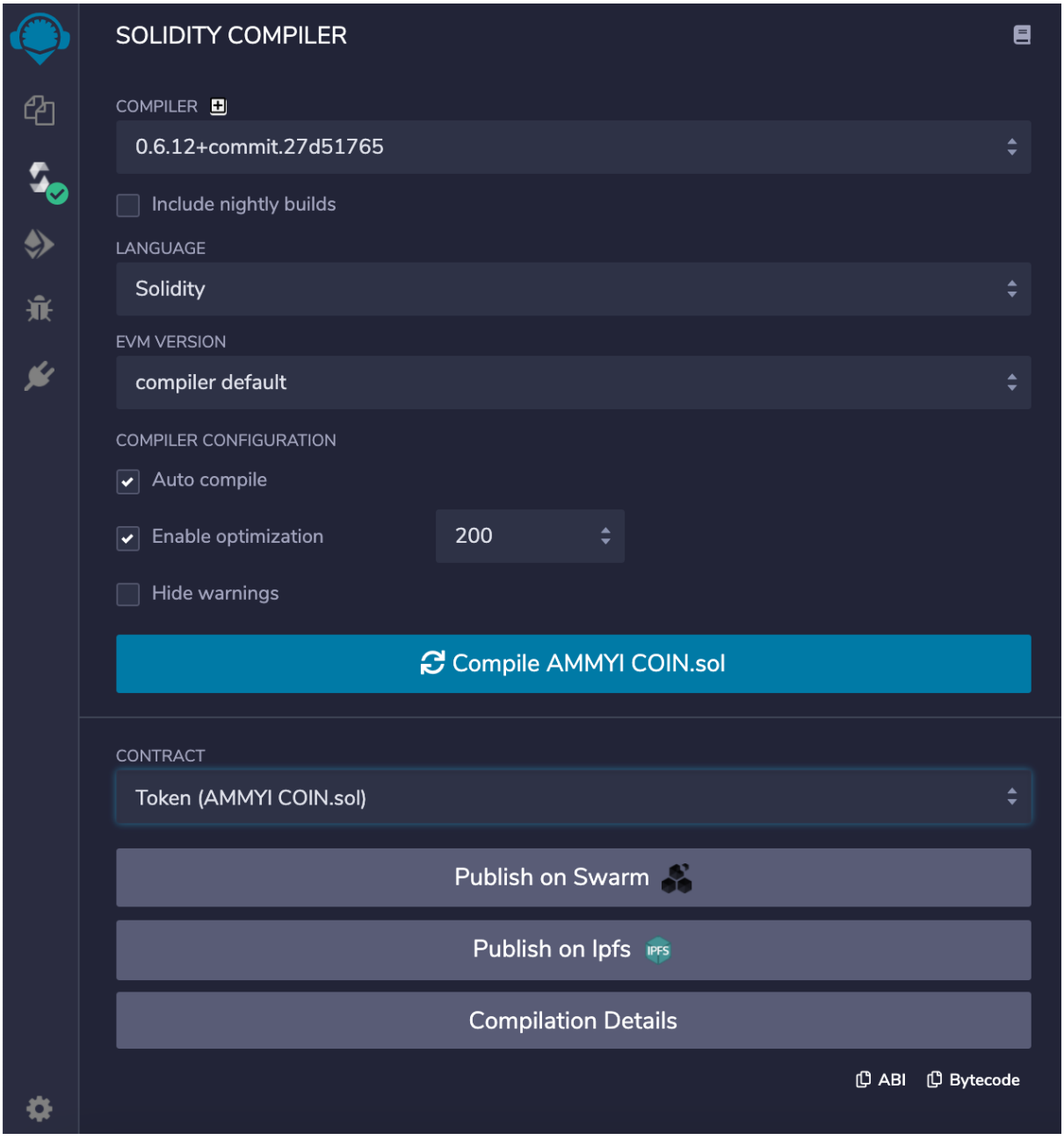
## Owner privileges

- None

# Automated Audit

## Remix Compiler Warnings

It throws warnings by Solidity's compiler. If it encounters any errors the contract cannot be compiled and deployed.



# 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.

# Summary

Smart contracts do not contain any high severity issues!

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.

# BLOCK AUDIT REPORT

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