AFIN Token

Smart Contract Audit Report

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ThaiChain, Thailand

August 11th, 2021

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: (i) cybersecurity vulnerabilities and issues in the smart contract source code analysed, the details of which are set out in this report, (Source Code); and (ii) the Source Code compiling, deploying and performing the intended functions. In order to get a full view of our findings and the scope 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 disclaimer below – please make sure to read it in full.

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Document Properties

Client	Asian Fintech
Title	Smart Contract Audit Report
Contract Address	https://etherscan.io/address/0xee9e5eff401ee921b138490d00ca8d1f13f67a72
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Approved By	Dom Charoenyos
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Introduction

Thai Chain was contracted by Asian Fintech to conduct an audit of smart contracts. The report presents the findings of the security assessment of the smart contracts and its code review conducted at August 11th, 2021

Scope

The scope of the project is smart contracts in the address:

https://etherscan.io/address/0xee9e5eff401ee921b138490d00ca8d1f13f67a72

Executive Summary

AFIN token is a ERC20 standard token with unlimited supply. Only the contract's owner will be able to mint. The ownership can be transferred to another address and can be renounced. The token can be burnt by the holder only. The token also has the ability to finish minting means that if `mintingFinished` was set, the token will not be able to mint anymore.

Our team performed an analysis of static analysis, code functionality and manual audit. We found 3 issues during the audit.

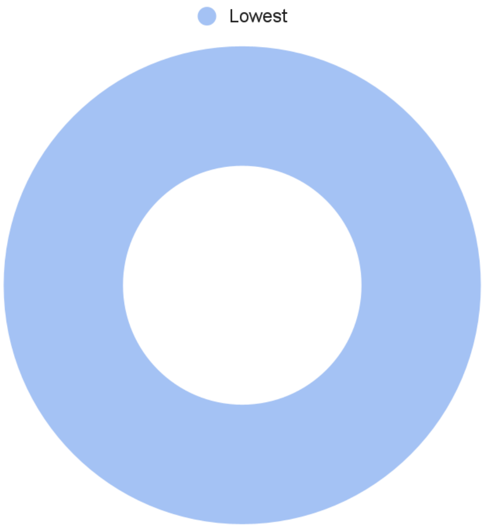
Severity Definitions

Severity Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to asset loss or data manipulations.
High	High-level vulnerabilities have a significant impact on smart contract execution, e.g., public access to crucial functions.
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to asset loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.
Lowest / Coding Style / Best Practice	Lowest-level vulnerabilities, code style violations, and info statements can't affect smart contract execution and can be ignored.

Findings

3 Total Issues

Critical	0 (0%)
High	0 (0%)
Medium	0 (0%)
Low	0 (0%)
Lowest	3 (100%)



ID	Title	Category	Severity	Status
AFIN-01	Old compiler version declaration and version not locked	Language Specific	Lowest	Acknowledged
AFIN-02	Public function that could be declared external	Optimization	Lowest	Acknowledged
AFIN-03	State variables that could be declared constant	Optimization	Lowest	Acknowledged

Audit Overview

Critical
No critical issues were found.

High
No critical issues were found.

Medium
No critical issues were found.

Low
No low issues were found.

Lowest / Coding Style / Best Practice

1. **AFIN-01**: `solc` frequently releases new compiler versions. Using an old version prevents access to new Solidity security checks. We also recommend avoiding complex `pragma` statements.

   Recommendation
   Avoid a floating prama version (i.e. `pragma solidity ^0.4.23;`) instead specify pragma version without using the caret symbol, i.e., `pragma solidity 0.6.12;`.

   Deploy with any of the following Solidity versions:
   - 0.5.16 - 0.5.17
   - 0.6.11 - 0.6.12
   - 0.7.5 - 0.7.6. Use a simple pragma version that allows any of these versions.

   We recommend using the latest version of Solidity for testing.

2. **AFIN-02**: `public` functions that are never called by the contract should be declared `external` to save gas.
    - `totalSupply()`
    - `balanceOf(address)`
    - `transfer(address,uint256)`
    - `allowance(address,address)`
    - `transferFrom(address,address,uint256)`
    - `approve(address,uint256)`
    - `increaseApproval(address,uint256)`
    - `decreaseApproval(address,uint256)`
    - `renounceOwnership()`
    - `transferOwnership(address)`
    - `mint(address,uint256)`
    - `finishMinting()`
    - `burn(uint256)`

    Recommendation
    Use the `external` attribute for functions never called from the contract.

3. **AFIN-03**: Constant state variables should be declared constant to save gas.
    - `Afin.decimals`
    - `Afin.name`
    - `Afin.symbol`

    Recommendation
    Add the `constant` attributes to state variables that never change.