



# Smart Contract Audit

FOR  
DealGuard

DATED : 20 Nov 24'



# AUDIT SUMMARY

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**Project name – DealGuard**

**Date:** 20 Nov, 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	2	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

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# USED TOOLS

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## 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:

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# Token Information

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**Token Address:**

0x518Eb73A88060972b19d909d515054DBd9b02E05

**Name:** DealGuard

**Symbol:** DGT

**Decimals:** 18

**Network:** Polygon Scan

**Token Type:** ERC-20

**Owner:** 0x0276d3AE91F43B3DaA6d6E2A0802AC2622bCC82B

**Deployer:**

0x0276d3AE91F43B3DaA6d6E2A0802AC2622bCC82B

**Token Supply:** 210,000,000

**Checksum:** abbca886282c61687cdccb75bb704474

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# TOKEN OVERVIEW

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**Buy Fee:** 0-0%

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**Sell Fee:** 0-0%

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**Transfer Fee:** 0-0%

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**Fee Privilege:** No

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**Ownership:** Owned

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**Minting:** No

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**Max Tx:** No

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**Blacklist:** No

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# AUDIT METHODOLOGY

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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-by-line 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 is exercised 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.
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# VULNERABILITY CHECKLIST

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- |                                    |                               |
|------------------------------------|-------------------------------|
| ✓ Return values of low-level calls | ✓ <b>Gasless Send</b>         |
| ✓ Private modifier                 | ✓ Using block.timestamp       |
| ✓ Multiple Sends                   | ✓ Re-entrancy                 |
| ✓ Using Suicide                    | ✓ Tautology or contradiction  |
| ✓ Gas Limitand Loops               | ✓ Timestamp Dependence        |
| ✓ Address hardcoded                | ✓ Revert/require functions    |
| ✓ Exception Disorder               | ✓ Use of tx.origin            |
| ✓ Using inline assembly            | ✓ Integer overflow/underflow  |
| ✓ Divide before multiply           | ✓ Dangerous strict equalities |
| ✓ Missing Zero Address Validation  | ✓ Using SHA3                  |
| ✓ Compiler version not fixed       | ✓ Using throw                 |
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## POINTS TO NOTE

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- The owner can set enable anti-bot.





# STATIC ANALYSIS

```
INFO:Detectors:
AntiBotStandardToken.allowance(address,address).owner (AntiBotStandardToken.sol#590) shadows:
- Ownable.owner() (AntiBotStandardToken.sol#150-152) (function)
AntiBotStandardToken._approve(address,address,uint256).owner (AntiBotStandardToken.sol#795) shadows:
- Ownable.owner() (AntiBotStandardToken.sol#150-152) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
AntiBotStandardToken._burn(address,uint256) (AntiBotStandardToken.sol#768-779) is never used and should be removed
AntiBotStandardToken._setupDecimals(uint8) (AntiBotStandardToken.sol#813-815) is never used and should be removed
Context._msgData() (AntiBotStandardToken.sol#110-112) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:
Version constraint =0.8.4 contains known severe issues (https://solidity.readthedocs.io/en/latest/bugs.html)
- FullInlinerNonExpressionSplitArgumentEvaluationOrder
- MissingSideEffectsOnSelectorAccess
- AbiReencodingHeadOverflowWithStaticArrayCleanup
- DirtyByteArrayToStorage
- DataLocationChangeInInternalOverride
- NestedCalldataArrayAbiReencodingSizeValidation
- SignedImmutables.
It is used by:
- =0.8.4 (AntiBotStandardToken.sol#461)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO:Detectors:
Parameter AntiBotStandardToken.setEnableAntiBot(bool)._enable (AntiBotStandardToken.sol#513) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
INFO:Detectors:
AntiBotStandardToken.pinkAntiBot (AntiBotStandardToken.sol#482) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
INFO:Slither:AntiBotStandardToken.sol analyzed (7 contracts with 94 detectors), 13 result(s) found
```

**Result => A static analysis of contract's source code has been performed using slither,  
No major issues were found in the output**



# CLASSIFICATION OF RISK

## Severity

## Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization /Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

## Findings

### Severity

### Found

◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	2
◆ Gas Optimization / Suggestions	0

# MANUAL TESTING

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## Centralization – Missing Zero Address

Severity: Low

Status: Open

### Overview:

functions can take a zero address as a parameter (0x00000...). If a function parameter of address type is not properly validated by checking for zero addresses, there could be serious consequences for the contract's functionality.

```
constructor(  
    string memory name_,  
    string memory symbol_,  
    uint8 decimals_,  
    uint256 totalSupply_,  
    address pinkAntiBot_,  
    address serviceFeeReceiver_,  
    uint256 serviceFee_  
) payable {  
    _name = name_;  
    _symbol = symbol_;  
    _decimals = decimals_;  
    _mint(owner(), totalSupply_);  
  
    pinkAntiBot = IPinkAntiBot(pinkAntiBot_);  
    pinkAntiBot.setTokenOwner(owner());  
    enableAntiBot = true;  
  
    emit TokenCreated(  
        owner(),  
        address(this),  
        TokenType.antiBotStandard,  
        VERSION  
    );  
  
    payable(serviceFeeReceiver_).transfer(serviceFee_);  
}
```

### Suggestion:

It is suggested that the address should not be zero or dead.

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# MANUAL TESTING

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**Centralization** – Remove the safe math library.

**Severity:** Low

**Status:** Open

**Line Number:** 205-416

**Overview:**

The Safe Math library is no longer needed for Solidity version 0.8 and above. This is because Solidity 0.8 includes checked arithmetic operations by default. All of Safe Math's methods are now inherited into Solidity programming.

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# ABOUT AUDITACE

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We specialize in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



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