

Smart Contract Audit

FOR

Smurfs

DATED: 19 June 23'



AUDIT SUMMARY

Project name - Smurfs

Date: 19 June, 2023

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	0
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/token/0x94035B40df8748 50be42F8a8e849150CF712421F



Token Information

Token Name: The Smurfs

Token Symbol: Smurfs

Decimals: 12

Token Supply: 2,100,000,000,000,000

Token Address:

0x98d90e16a4BFB2bd1722811179151af02d85eB76

Checksum:

0ac8b43689586ec2f0b310755151bdcd87dba981

Owner:

0xb745Eb8F10FD4653042B45015CD92e3D9dbcafb7 (at time of writing the audit)

Deployer:

0xb745Eb8F10FD4653042B45015CD92e3D9dbcafb7



TOKEN OVERVIEW

Fees:

Buy Fees: 0-%

Sell Fees: 0-%

Transfer Fees: 0-%

Fees Privilege: No fees

Ownership: not owned

Minting: none

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: - Initial distribution of the tokens



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





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.

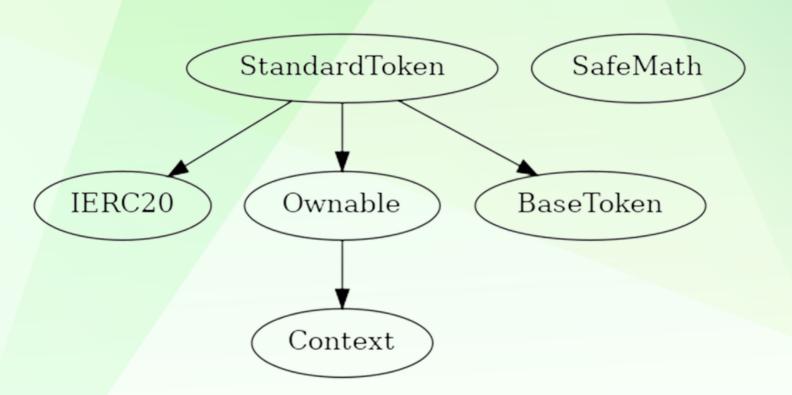
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Fees are 0 (static)
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to disable trades
- Owner is not able to limit buy/sell/transfer/wallet amounts
- Owner is not able to mint new tokens



CONTRACT ASSESMENT

```
Contract |
              Type
                          Bases
   L | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| **IERC20** | Interface | |||
L | totalSupply | External | NO | |
 | balanceOf | External | NO | |
 L | transfer | External | | NO | |
 L | allowance | External | | NO | |
 | approve | External | | | NO | |
 L | transferFrom | External | | | NO | |
**Context** | Implementation | |||
📙 | msgSender | Internal 🔒 | ||
 **Ownable** | Implementation | Context |||
 | owner | Public | | NO | |
 L | renounceOwnership | Public | | • | onlyOwner |
 L | setOwner | Private 🔐 | 🌑 | |
**SafeMath** | Library | |||
 L | tryAdd | Internal 🔒 | | |
 └ | trySub | Internal 🔒 | ||
 L | tryMul | Internal 🔒 | | |
L | tryDiv | Internal 🔒 | ||
 L | tryMod | Internal 🔒 | | |
L | add | Internal 🔒 | | |
 └ | sub | Internal 🔒 | | |
 └ | mul | Internal 🔒 | | |
└ | mod | Internal 🔒 | ||
└ | sub | Internal 🔒 | | |
└ | div | Internal 🔒 | | |
 **BaseToken** | Implementation | |||
| **StandardToken** | Implementation | IERC20, Ownable, BaseToken |||
 L | <Constructor> | Public | | SD | NO | |
 L | name | Public | | NO | |
L | symbol | Public | | | NO | |
```



CONTRACT ASSESMENT

```
L | decimals | Public | NO | |
 L | totalSupply | Public | | NO | |
 L | balanceOf | Public | | NO ! |
 L | transfer | Public | | | NO | |
 | allowance | Public | | NO | |
 | approve | Public | | | NO | |
 L | transferFrom | Public | | NO | |
 | decreaseAllowance | Public | | | NO | |
 └ | transfer | Internal 🔒 | ● ||
 └ | burn | Internal 🔒 | 🛑 | |
L | _approve | Internal 🔒 | 🛑 ||
L | setupDecimals | Internal 🔒 | 🛑 | |
| L | beforeTokenTransfer | Internal 🔒 | 🛑 | |
### Legend
| Symbol | Meaning |
|:----|
      | Function can modify state |
```

| Function is payable |



STATIC ANALYSIS

```
StandardToken allowance(address, address), owner (contracts/Token, sol#51) shadows:

- Damable owner() (contracts/Token, sol#159-16) (function)

StandardToken, approve(address, address, uint256), owner (contracts/Token.sol#765) shadows:
- Damable owner() (contracts/Token.sol#159-16) (function)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

Context, msgData() (contracts/Token, sol#18-120) is never used and should be removed
safeWath.div(uint256, uint256, string) (contracts/Token.sol#495-31) is never used and should be removed
safeWath.div(uint256, uint256, string) (contracts/Token, sol#496-414) is never used and should be removed
safeWath.div(uint256, uint256, string) (contracts/Token, sol#496-414) is never used and should be removed
safeWath.mod(uint256, uint256, string) (contracts/Token, sol#35-337) is never used and should be removed
safeWath.mod(uint256, uint256, contracts/Token, sol#35-337) is never used and should be removed
safeWath.tyndd(uint256, uint256) (contracts/Token, sol#321-323) is never used and should be removed
safeWath.tyndd(uint256, uint256) (contracts/Token, sol#272-280) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token, sol#272-280) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token, sol#272-280) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token, sol#272-280) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token, sol#272-280) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token, sol#373-749) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token, sol#373-749) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token, sol#373-749) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token, sol#373-378) is never used and should be removed
safeWath.tyndu(uint256, uint256) (contracts/Token
```

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

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x15825b70f1306f56a6d68d9ca9c3cd 6fa0660070fdf3b010df63c3da83f3351d

2- Buying (0% tax) (passed):

https://testnet.bscscan.com/tx/0xee0943a6f9120ef3e1d3f0754ecacfe 01cb1bcfe56bf59edc732b7c73c829366

3- Selling (0% tax) (passed):

https://testnet.bscscan.com/tx/0xee30015d30219933b97dc6d47e8e0bb33cd5a2d0cbedee5a972f00adfe50e516

4- Transferring 0% tax) (passed):

https://testnet.bscscan.com/tx/0x89b574aba606f749a2353eb3d0eea0dbcfd769caaf194ad9f4707f0e552beeef



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