auditace.tech

AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

uPEPE

DATED : 28 May 23'

AUDIT SUMMARY

Project name – uPEPE

Date: 28 May, 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/address/0x70e520a5291F42625001b5403F2AbA589bdDB75c

Token Information

Token Name : UniPEPE

Token Symbol: uPEPE

Decimals: 9

Token Supply: 420,689,000,000,000,000

Token Address:
0xc8e68DA88E4830eb313aF0de8bF3D435e85bDc42

Checksum:
0ac8b43689586ec2f0b310755151bdcd87dba981

Owner:
0x5a38702Ed9bF48ff2fF4bFBb9D7085455e42A979
(at time of writing the audit)

Deployer:
0x5a38702Ed9bF48ff2fF4bFBb9D7085455e42A979

TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: No Fees

Ownership: not owned

Minting: No mint function

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-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 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

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

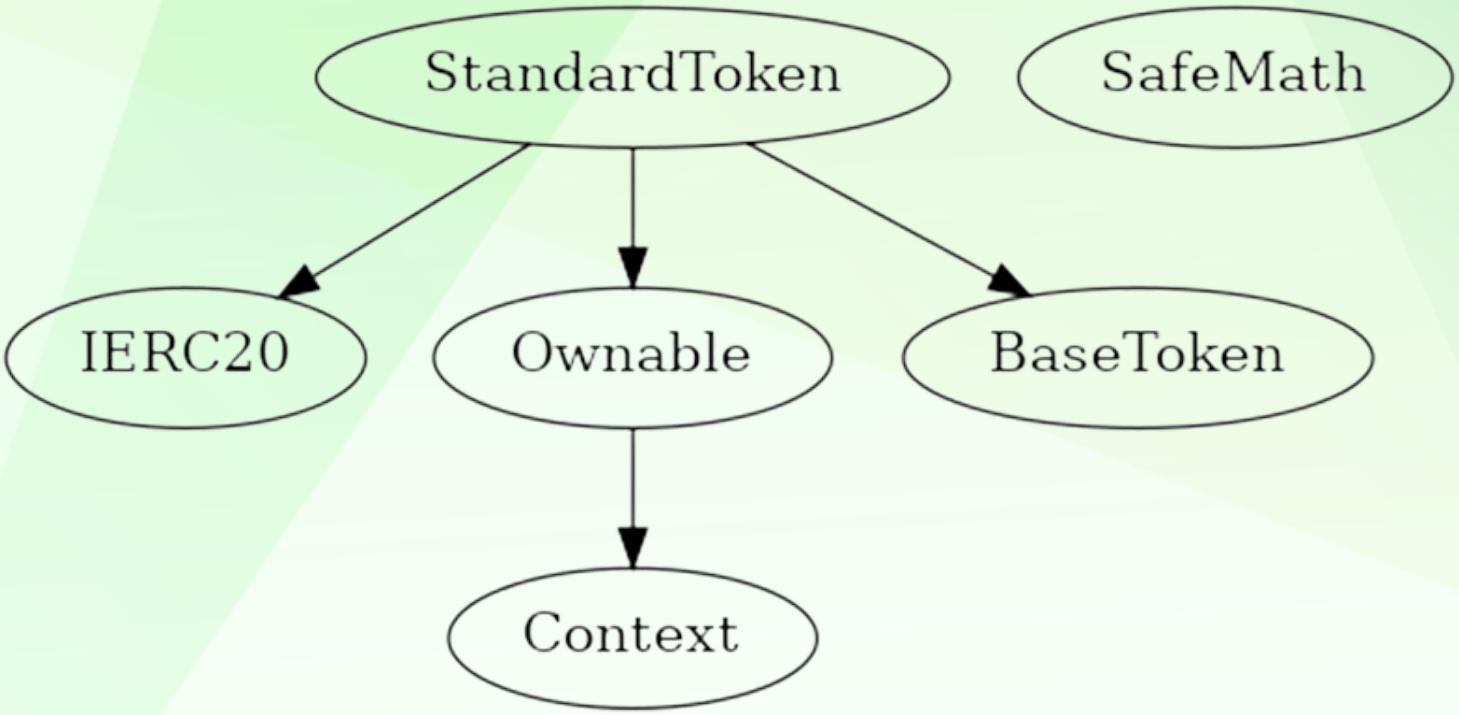
CLASSIFICATION OF RISK

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	0
Gas Optimization / Suggestions	0

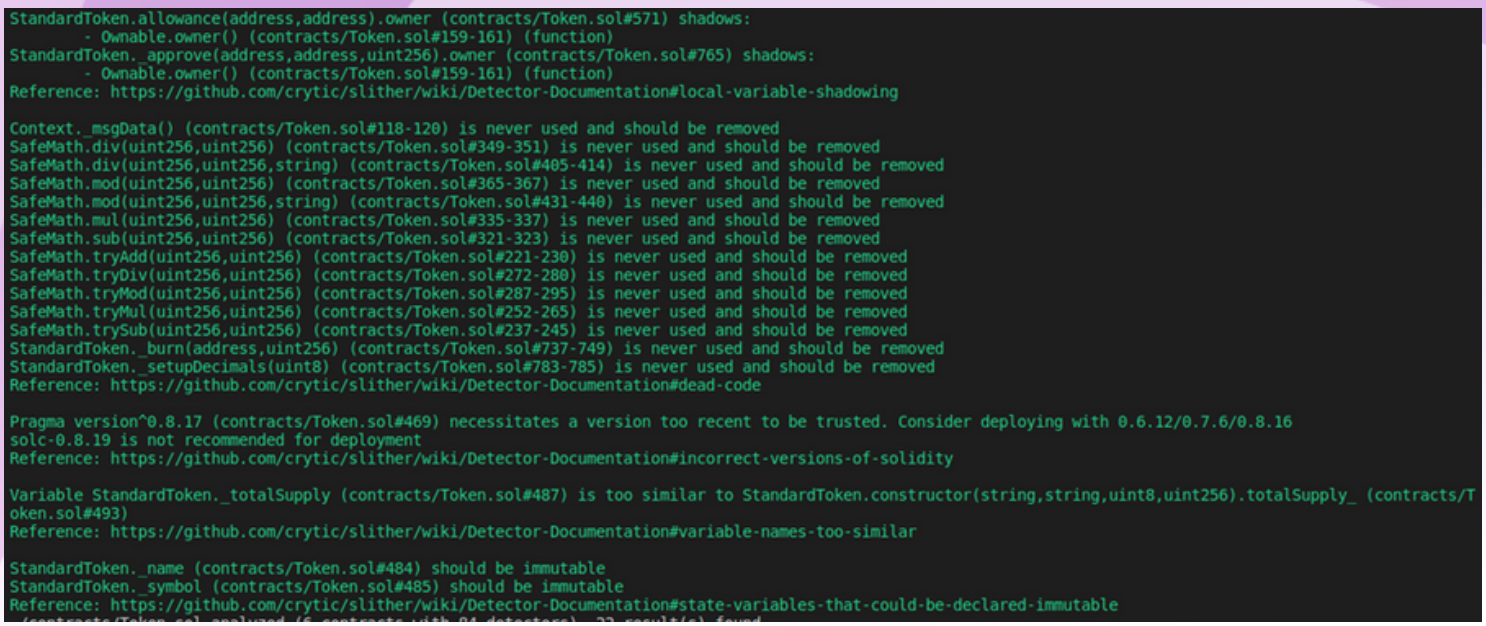
INHERITANCE TREE



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

STATIC ANALYSIS



```
StandardToken.allowance(address,address).owner (contracts/Token.sol#571) shadows:
        - Ownable.owner() (contracts/Token.sol#159-161) (function)
StandardToken._approve(address,address,uint256).owner (contracts/Token.sol#765) shadows:
        - Ownable.owner() (contracts/Token.sol#159-161) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

Context._msgData() (contracts/Token.sol#118-120) is never used and should be removed
SafeMath.div(uint256,uint256) (contracts/Token.sol#349-351) is never used and should be removed
SafeMath.div(uint256,uint256,string) (contracts/Token.sol#405-414) is never used and should be removed
SafeMath.mod(uint256,uint256) (contracts/Token.sol#365-367) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (contracts/Token.sol#431-440) is never used and should be removed
SafeMath.mul(uint256,uint256) (contracts/Token.sol#335-337) is never used and should be removed
SafeMath.sub(uint256,uint256) (contracts/Token.sol#321-323) is never used and should be removed
SafeMath.tryAdd(uint256,uint256) (contracts/Token.sol#221-230) is never used and should be removed
SafeMath.tryDiv(uint256,uint256) (contracts/Token.sol#272-280) is never used and should be removed
SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#287-295) is never used and should be removed
SafeMath.tryMul(uint256,uint256) (contracts/Token.sol#252-265) is never used and should be removed
SafeMath.trySub(uint256,uint256) (contracts/Token.sol#237-245) is never used and should be removed
StandardToken._burn(address,uint256) (contracts/Token.sol#737-749) is never used and should be removed
StandardToken._setupDecimals(uint8) (contracts/Token.sol#783-785) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#469) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Variable StandardToken._totalSupply (contracts/Token.sol#487) is too similar to StandardToken.constructor(string,string,uint8,uint256).totalSupply_ (contracts/T
oken.sol#493)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

StandardToken._name (contracts/Token.sol#484) should be immutable
StandardToken._symbol (contracts/Token.sol#485) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

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/0xe8c679a0383d2434797c52aac9aa0b262ec3bc72c864c7cb686f2acc93d946de

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

https://testnet.bscscan.com/tx/0x16ccb38c0b6a2fd0e7a5f4a9e4c52159ccd96ea8b773d562d765525ff28520ac

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

https://testnet.bscscan.com/tx/0x09948eed5f1f8cced7e2e508a1d9c7e4c808e10b9eef5f24a4fa7e07dfeb29d5

4- Transferring 0% tax) (passed):

https://testnet.bscscan.com/tx/0x7f9b6cb28089e717eddf834c1515c000c410440054f2ef9ae94d04dbc62f9c3f

MANUAL TESTING

No Issues Found

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