



Smart Contract Audit

FOR
AIEPH

DATED : 30 June 23'



AUDIT SUMMARY

Project name – AIEPH

Date: 30 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:

Contract has been tested on binance smart chain testnet which can be found in below link:

<https://testnet.bscscan.com/token/0x6C3a03797378eAE216845CBc13a0b9F585f43F89>



Token Information

Token Name : AIEPH EDKBLFEATCGEHGHWPMUSK
DOGE

Token Symbol: AIEPH

Decimals: 9

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

Token Address:

0x04D749487Ad4707509eC4f30d40FC98f06259cFa

Checksum:

ea1f0ac0f7d7a7351cce5acac5b771dc62f3df9c

Owner:

0x348e51C60e9e15C0f80b95e6a2619655b07489E4
(at time of writing the audit)

Deployer:

0x348e51C60e9e15C0f80b95e6a2619655b07489E4



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: No fees

Ownership: Renounced

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-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.
-

VULNERABILITY CHECKLIST

- | | |
|------------------------------------|-------------------------------|
| ✓ Return values of low-level calls | ✓ Gasless Send |
| ✓ 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 |
-



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

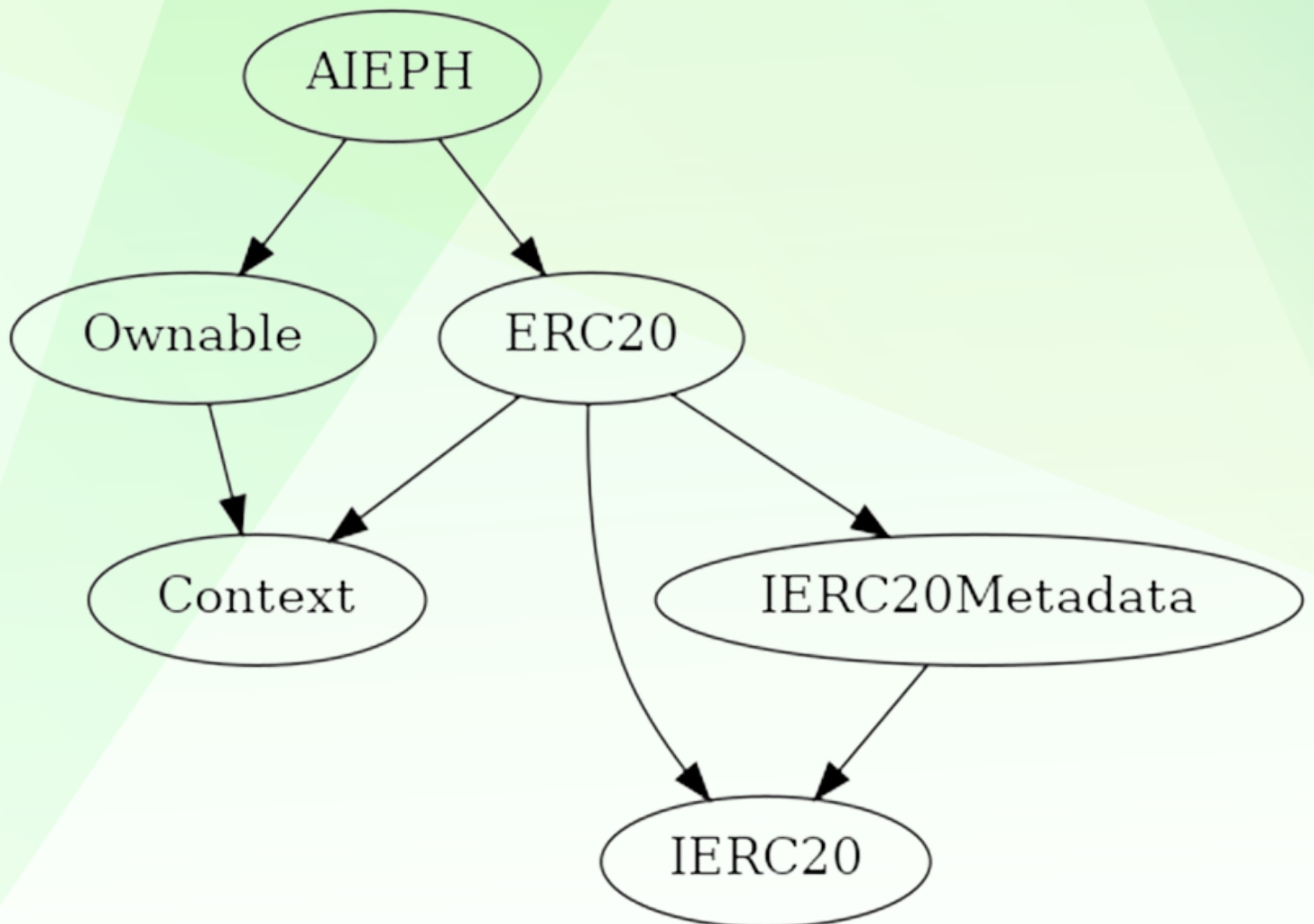
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to set buy/sell/transfer tax
 - Owner is not able to set max buy/sell/transfer/hold amount
 - Owner is not able to blacklist an arbitrary wallet
 - Owner is not able to disable trades
 - Owner is not able to mint new tokens
-



CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
Context Implementation					
L	_msgSender	Internal	🔒		
L	_msgData	Internal	🔒		
Ownable Implementation Context					
L	<Constructor>	Public	!	●	[NO !]
L	owner	Public	!		[NO !]
L	renounceOwnership	Public	!	●	onlyOwner
L	transferOwnership	Public	!	●	onlyOwner
L	_transferOwnership	Internal	🔒	●	
IERC20 Interface					
L	totalSupply	External	!		[NO !]
L	balanceOf	External	!		[NO !]
L	transfer	External	!	●	[NO !]
L	allowance	External	!		[NO !]
L	approve	External	!	●	[NO !]
L	transferFrom	External	!	●	[NO !]
IERC20Metadata Interface IERC20					
L	name	External	!		[NO !]
L	symbol	External	!		[NO !]
L	decimals	External	!		[NO !]
ERC20 Implementation Context, IERC20, IERC20Metadata					
L	<Constructor>	Public	!	●	[NO !]
L	name	Public	!		[NO !]
L	symbol	Public	!		[NO !]
L	decimals	Public	!		[NO !]
L	totalSupply	Public	!		[NO !]
L	balanceOf	Public	!		[NO !]
L	transfer	Public	!	●	[NO !]
L	allowance	Public	!		[NO !]
L	approve	Public	!	●	[NO !]
L	transferFrom	Public	!	●	[NO !]
L	increaseAllowance	Public	!	●	[NO !]
L	decreaseAllowance	Public	!	●	[NO !]
L	_transfer	Internal	🔒	●	
L	_mint	Internal	🔒	●	
L	_burn	Internal	🔒	●	



CONTRACT ASSESMENT

```
| L | _approve | Internal | 🔒 | 🔴 | |  
| L | _beforeTokenTransfer | Internal | 🔒 | 🔴 | |  
| L | _afterTokenTransfer | Internal | 🔒 | 🔴 | |  
|||||  
| **AIEPH** | Implementation | Ownable, ERC20 |||  
| L | <Constructor> | Public | ! | 🔴 | ERC20 |
```

Legend

Symbol	Meaning
:-----: -----	
🔴	Function can modify state
💰	Function is payable



STATIC ANALYSIS

```
AIEPH.constructor(uint256)._totalSupply (contracts/Token.sol#535) shadows:
- ERC20._totalSupply (contracts/Token.sol#234) (state variable)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

Different versions of Solidity are used:
- Version used: ['^0.8.0', '^0.8.17']
- ^0.8.0 (contracts/Token.sol#30)
- ^0.8.0 (contracts/Token.sol#102)
- ^0.8.0 (contracts/Token.sol#178)
- ^0.8.0 (contracts/Token.sol#202)
- ^0.8.0 (contracts/Token.sol#532)
- ^0.8.17 (contracts/Token.sol#8)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#different-pragma-directives-are-used

Context._msgData() (contracts/Token.sol#25-27) is never used and should be removed
ERC20._burn(address,uint256) (contracts/Token.sol#461-476) 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#8) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
Pragma version^0.8.0 (contracts/Token.sol#30) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#102) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#178) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#202) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#532) allows old versions
solc-0.8.20 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
```

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

No major issues were found in the output



FUNCTIONAL TESTING

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x5dbb292ff818f7f1d7cdb09f5b22203082f838bb42127f69e192af03b3ccc88f>

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

<https://testnet.bscscan.com/tx/0x7ad14297657e81b214d0518128e710dfc0ed4b6dfbf8951a23c3742e04787ec6>

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

<https://testnet.bscscan.com/tx/0xabecdbfa61e76c94207b437c53766d03523ea517b85e95c5115f7b19ca66deb5>

4- Transferring (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xd15de64a346e48adb008bfa3b9050769ad71ae79eb80b2247b49ecf14af0b36c>



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