

Smart Contract Audit

FOR

All In One

DATED: 18 October 23'



MANUAL TESTING

Centralization - Enabling Trades

Severity: High

function: enableTrading

Status: Open

Overview:

The enableTrading function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function enableTrading() external onlyOwner {
   tradingActive = true;
   emit EnabledTrading();
}
```

Suggestion

To reduce centralization and potential manipulation, consider one of the following approaches:

- 1. Automatically enable trading after a specified condition, such as the completion of a presale, is met.
- 2.If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can provide investors with more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad faith actions by the original owner



AUDIT SUMMARY

Project name - All In One

Date: 18 October 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed with high risk

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	1	1	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/0xf9Ca57A3091b7687969bfeCD63F130CaD0cC27Ab#code



Token Information

Token Address:

0x07BbdCff0D46Da7b8689871801c0AB4141f60BDc

Name: All In One

Symbol: AIO

Decimals: 18

Network: Ethereum

Token Type: ERC20

Owner: 0x52f54628Cb2fC8b6B613F398d4B2a810b3B3Cc56

Deployer:

0x52f54628Cb2fC8b6B613F398d4B2a810b3B3Cc56

Token Supply: 1,000,000,000

Checksum:

51599f7ac46156632bb42ac8e11439bbf74cc982

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/0xf9Ca57A3091b7687969bfeCD63F130CaD0cC27Ab#code



TOKEN OVERVIEW

buy fee: 0-20%

Sell fee: 0-20%

transfer fee: 0%

Fee Privilege: Owner

Ownership: Owner

Minting: None

Max Tx: None

Blacklist: No

Other Privileges:

- Initial distribution of the token
- Modifying fees
- Modifying maximum wallet and maximum transactions
- Enabling trades



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.

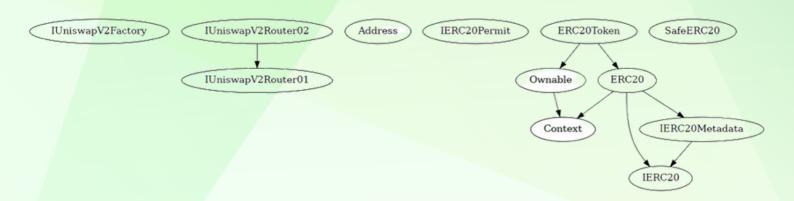
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ Critical	0
♦ High-Risk	1
◆ Medium-Risk	1
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner is able to adjust buy/sell fees within 0-20%
- Owner is not able to set transfer fees
- Owner is able to adjust maximum wallet and maximum buy/sell between 0.25% - 100% of total supply
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens
- Owner must enable trades manually



STATIC ANALYSIS

```
| Non-Districtions | Non-Districtions | Non-Distriction | Non-Dist
```

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

No major issues were found in the output



```
| Contract | Type | Bases | | | | |
|<del>|------||-----||-------|</del>------|
| **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
**IUniswapV2Factory** | Interface | |||
| | | feeToSetter | External | | NO | | |
| | getPair | External | | NO | |
| | all Pairs | External | | NO ! |
| LallPairsLength | External ! | NO! |
| - | createPair | External | | | | NO | |
| └ | setFeeTo | External ! | ● |NO! |
| └ | setFeeToSetter | External ! | ● | NO! |
1111111
| **IUniswapV2Router01** | Interface | | | |
| └ | addLiquidity | External ! | ● NO! |
| └ | addLiquidityETH | External ! | ■ NO! |
| └ | removeLiquidity | External ! | ● | NO! |
└ | removeLiquidityETHWithPermit | External ! | ● |NO! |
| | swapExactETHForTokens | External | | 1 NO | |
| - | swapTokensForExactETH | External ! | • | NO ! |
| - | swapExactTokensForETH | External ! | • | NO! |
```



```
| | swapETHForExactTokens | External | | 1 | NO | |
| | quote | External | | NO ! |
| | getAmountOut | External | | NO | |
| | getAmountin | External | | NO | |
| | getAmountsOut | External | | NO | |
| | getAmountsIn | External | | NO | |
HIIII
**IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
└ removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● | NO! |
| - | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● | NO! |
└ | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● | NO! |
「└ | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 💵 | NO! |
1111111
| **Address** | Library | ||| |
| └ | isContract | Internal | | | |
| └ | sendValue | Internal 🔒 | ● | |
| └ | functionCall | Internal 🔒 | ● | |
| └ | functionCall | Internal | ● | ● | |
| └ | functionCallWithValue | Internal 🔒 | ● | |
| └ | functionCallWithValue | Internal 🔒 | ● | |
| - | functionStaticCall | Internal - | | |
| - | functionStaticCall | Internal | - | | |
| └ | functionDelegateCall | Internal 🔒 | ● | |
| └ | functionDelegateCall | Internal 🔒 | ● | |
| └ | verifyCallResultFromTarget | Internal | | | |
| L | verifyCallResult | Internal | L | |
| - | _revert | Private 🔐 | | |
111111
| **IERC20Permit** | Interface | | | |
| L | DOMAIN_SEPARATOR | External ! | NO! |
1111111
| **Context** | Implementation | |||
```



```
| - | _msgSender | Internal | - | | |
| L | msgData | Internal A | | | |
**Ownable** | Implementation | Context |
| L | _checkOwner | Internal 🔒 | | |
| - | transferOwnership | Public ! | • | onlyOwner |
| - | _transferOwnership | Internal 🔒 | 🛑 | |
1111111
| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| - | balanceOf | External | | | NO | |
| - | allowance | External | | | NO | |
| └ | transferFrom | External ! | ● | NO! |
IIIIII
| **SafeERC20** | Library | | | | | | | |
| \ | \ | safeTransfer | \ | Internal | \ | \ | \ | \ |
| └ | safeTransferFrom | Internal 🔒 | ● | |
| └ | safeApprove | Internal 🄒 | ● | |
| - | safeIncreaseAllowance | Internal | - | - | - |
| - | safeDecreaseAllowance | Internal | - | | - | |
| └ | forceApprove | Internal | ● | ● | |
| └ | safePermit | Internal 🔒 | ● | |
| - | _callOptionalReturn | Private 🔐 | 🌑 | |
| - | _callOptionalReturnBool | Private 🔐 | 🌑 | |
111111
| **IERC20Metadata** | Interface | IERC20 |||
| - | name | External | | | NO | |
IIIIII
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | | |
| └ | <Constructor> | Public ! | ● | NO! |
| | name | Public | | NO | |
| | symbol | Public | | NO | |
```



```
| - | totalSupply | Public ! | NO! | | | | | |
| - | balanceOf | Public | | | NO ! |
| - | allowance | Public ! | NO! |
| | | increase Allowance | Public | | | | NO | |
| | decreaseAllowance | Public ! | | NO! |
| - | _transfer | Internal 🔒 | 🕌 | |
| - | _burn | Internal 🤒 | 🌑 | |
📙 | _approve | Internal 🔒 | 🌒 | |
| └ | _spendAllowance | Internal 🔒 | ● | | |
| - | _beforeTokenTransfer | Internal | - | - | |
| └ | _afterTokenTransfer | Internal 🔓 | ● | |
111111
| **ERC20Token** | Implementation | ERC20, Ownable | | | |
| L | socialLinks | External | | NO | |
| └ | setWebsiteLink | External ! | ● | onlyOwner |
| - | setTwitterLink | External ! | • | onlyOwner |
| └ | setDiscordLink | External ! | ● | onlyOwner |
| - | setSocialLinks | External | | • | NO ! |
| \  \  | checkLimits | \   Internal | \  \  | | \  \  |
| └ | handleTax | Internal 🔒 | ● | |
| - | swapTokensForETH | Private 🔐 | 🌘 | |
| └ | swapBack | Private 🔐 | ● | |
| └ | setExemptFromFees | External ! | ● NO! |
| └ | updateSellTax | External ! | ● | onlyOwner |
| └ | enableTrading | External ! | ● | onlyOwner |
| └ | removeLimits | External ! | ● | onlyOwner |
| └ | rescueTokens | External ! | ● | onlyOwner |
```





FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0xd5a1ce69a555e1f3405c685a425eb41f0759fc244cb59abe430e0d6ed546c64b

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

https://testnet.bscscan.com/tx/0xb13d6ff87c7d99ba9a068c65de07886179dadb8fa 7adc7288ac5d233e2232b7b

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

https://testnet.bscscan.com/tx/0x1619b348adbcdd959b73b70d5ff9c4e747b767f62f 50925fd531df22ce2c01e6

4- Transferring when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x9f651ca372fc5b6fb85d9f675f90db762f66154e5c 1bf9faa0b4e8106a26cab1

5- Buying when not excluded from fees (tax 0-20%) (passed):

https://testnet.bscscan.com/tx/0x1190927bc8bbc65be6a141ad370ddb4381788f9ee8 fceeb9313907b33599173f

6- Selling when not excluded from fees (tax 0-20%) (passed):

https://testnet.bscscan.com/tx/0x4fb5b2b73624d658122270bdb7954b8ba4232e81e 167bdc66f88fba07690a51c

7- Transferring when not excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0xaa1c079e529daecde635c0b38fa0e7a6b0a70a0e9b0712a103372d37002fc912

7- Internal swap (Tax receiver received ETH) (passed):

https://testnet.bscscan.com/address/0x03ca8c127dC9B912B962CDEC839CcBC983e 59bE9#internaltx



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Status: Open

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MANUAL TESTING

Logical - fee receiver wallet rejecting ETH

function swapTokensForETH(uint256 tokenAmt) private {

Severity: Medium Status: Open

Overview:

If f taxReceiverAddress wallet is set to a contract that doesn't accept ETH (using updateTaxAddress), sending ETH to this wallet during internal swap will be reverted potentially disabling sell swaps.

```
<mark>function sw</mark>apTokensForETH(uint256 tokenAmt)                                private {
    address[] memory path = new address[](2);
    path[0] = address(this);
    path[1] = address(dexRouter.WETH());
    dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(
       tokenAmt.
       0.
      path.
      address(taxReceiverAddress),
      block.timestamp
    );
 }
Example of a contract that rejects ETH:
contract Rejector {
 receive() external payable {
    revert("Can't receive ETH");
```

Suggestion

In below code, even if taxReceiverAddress wallet is set to a contract that does not accept ETH, the transaction wont be reverted.

or you can alternatively inlclude swapExactTokensForETHSupportingFeeOnTransferTokens in a 'trycatch' block and ignore failure cases.



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